CUADERNILLO DE PREGUNTAS



Saber 3°, 5° y 9° 2012 Cuadernillo de prueba Segunda edición

> Matemáticas Grado 3º







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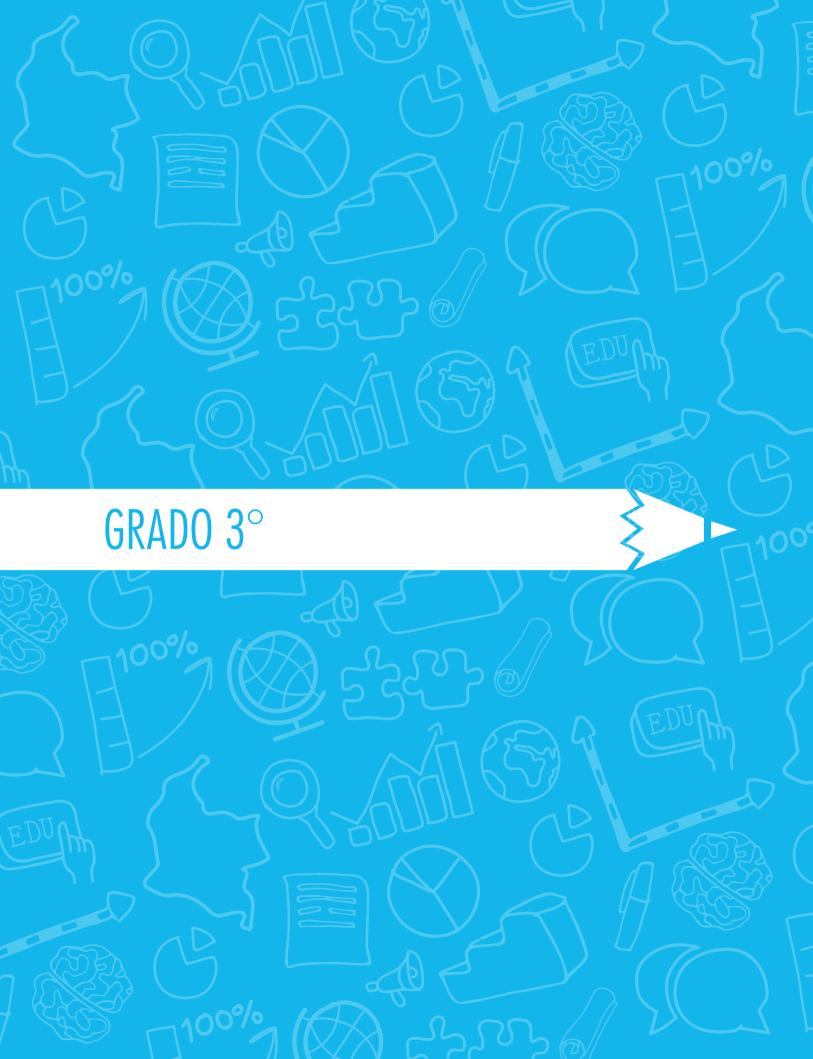
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GRADO 3° - PRUEBA DE MATEMÁTICAS

• Pregunta 1.

Tres paquetes tienen 5 galletas cada uno. La cantidad de galletas que hay en total se puede expresar como

A. 5

B. 5 + 5 + 5

C. 3 + 5

D. 3 + 3 + 3

Competencia	Razonamiento y argumentación
Componente	Numérico - variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	17.9%	56.0%	16.1%	6.4%	3.6%	800
Antioquia	18.6%	59.5%	12.6%	7.1%	2.2%	22994
Apartadó	23.2%	54.2%	11.6%	8.0%	2.9%	1357
Arauca	20.3%	57.5%	13.9%	6.6%	1.7%	2079
Armenia	20.5%	54.1%	18.0%	6.4%	1.0%	1916
Atlántico	18.6%	59.4%	11.2%	6.9%	3.9%	4466
Barrancabermeja	18.4%	58.6%	15.2%	5.7%	2.2%	1795
Barranquilla	18.2%	59.8%	13.2%	6.4%	2.4%	7802
Bello	19.6%	59.5%	13.9%	5.9%	1.1%	2933
Bogotá, D.C.	16.6%	60.3%	15.7%	5.1%	2.4%	47935
Bolívar	20.8%	52.2%	12.6%	10.0%	4.4%	8299
Boyacá	20.7%	57.0%	13.8%	7.2%	1.3%	6891
Bucaramanga	16.3%	63.1%	14.3%	5.0%	1.3%	3829
Buenaventura	16.1%	63.5%	10.7%	7.2%	2.4%	2848
Buga	16.2%	59.4%	15.9%	4.6%	3.9%	822
Caldas	19.6%	59.5%	12.4%	7.0%	1.6%	4507
Cali	16.7%	60.5%	14.9%	5.8%	2.2%	14472
Caquetá	19.7%	60.4%	11.0%	7.3%	1.6%	2765
Cartagena	16.4%	61.6%	12.3%	6.7%	3.0%	8117
Cartago	17.9%	56.2%	16.9%	7.4%	1.6%	810
Casanare	21.8%	50.7%	16.9%	8.7%	1.9%	2226
Саиса	15.9%	64.6%	10.5%	6.6%	2.4%	9633
Cesar	17.6%	61.7%	11.0%	7.1%	2.6%	6653
Chocó	18.6%	54.5%	12.1%	10.2%	4.6%	3467
Chía	18.0%	61.6%	13.4%	6.0%	0.9%	961
Ciénaga	17.9%	61.7%	8.9%	5.9%	5.5%	1145
Cundinamarca	18.5%	60.1%	14.1%	6.0%	1.3%	11913
Córdoba	18.1%	57.6%	11.8%	9.5%	3.1%	9883
Cúcuta	20.3%	56.5%	15.8%	6.3%	1.1%	5554
Dosquebradas	19.4%	53.9%	19.1%	5.3%	2.3%	1195
Duitama	15.3%	65.3%	13.7%	5.2%	0.6%	1002
Envigado	15.6%	66.6%	13.5%	3.6%	0.6%	989
Facatativá	18.7%	56.9%	14.9%	6.0%	3.5%	1082
Florencia	22.5%	55.1%	14.3%	6.3%	1.7%	1576
Floridablanca	16.7%	61.8%	14.9%	5.9%	0.7%	1916
Fusagasugá	17.3%	58.6%	16.1%	7.0%	1.0%	1029
Girardot	18.3%	56.4%	13.4%	9.2%	2.8%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	18.0%	58.8%	13.8%	7.3%	2.1%	2578
Soacha	17.5%	59.7%	16.3%	5.2%	1.2%	4048
Sogamoso	18.9%	61.2%	14.4%	5.2%	0.4%	1119
Soledad	18.4%	59.9%	13.0%	6.7%	2.1%	3865
Sucre	19.3%	57.8%	10.5%	9.2%	3.2%	6080
Tolima	19.4%	58.5%	12.8%	7.4%	1.9%	7517
Tuluá	17.5%	58.9%	16.8%	5.7%	1.0%	1638
Tumaco	18.9%	53.2%	12.3%	9.2%	6.4%	2161
Tunja	18.6%	62.5%	12.5%	5.4%	0.9%	1288
Turbo	21.9%	52.3%	12.5%	9.0%	4.2%	1473
Uribia	19.8%	51.4%	12.3%	10.4%	6.0%	729
Valle del Cauca	20.4%	55.5%	15.0%	6.7%	2.4%	6460
Valledupar	17.6%	60.1%	12.1%	6.5%	3.6%	3519
Vaupés	0.0%	33.3%	16.7%	0.0%	50.0%	6
Vichada	14.5%	61.5%	12.9%	8.5%	2.6%	543
Villavicencio	17.6%	60.3%	15.4%	5.4%	1.2%	4133
Yopal	20.9%	53.8%	15.9%	7.7%	1.8%	1346
Yumbo	22.7%	53.9%	14.6%	7.5%	1.3%	933
Zipaquirá	18.1%	60.5%	14.1%	6.3%	1.0%	987
Colombia	18.3%	59.0%	13.7%	6.7%	2.3%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



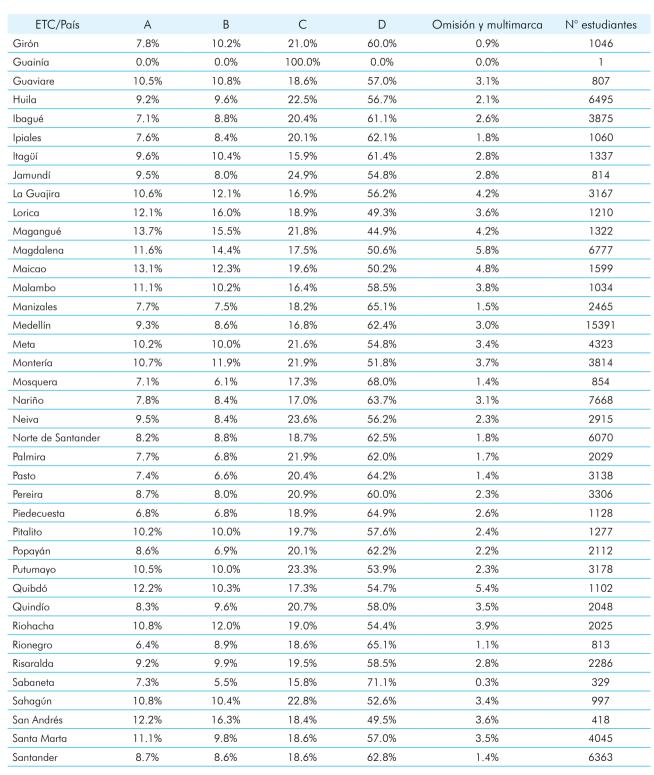
De lunes a jueves, Valeria deposita diariamente 3 monedas en su alcancía. ¿Cuántas monedas ha depositado Valeria durante estos 4 días?

- А. З
- B. 4
- C. 7
- D. 12

Competencia	Planteamiento y resolución de problemas
Componente	Numérico - variacional
Afirmación	Resolver y formular problemas multiplicativos rutinarios de adición repetida.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	10.0%	11.6%	22.1%	51.4%	4.9%	800
Antioquia	9.6%	10.1%	17.7%	59.6%	2.9%	22994
Apartadó	12.6%	13.6%	18.1%	52.0%	3.8%	1357
Arauca	10.2%	10.3%	19.7%	57.3%	2.5%	2079
Armenia	9.2%	8.4%	25.2%	56.0%	1.2%	1916
Atlántico	10.4%	13.2%	17.2%	54.6%	4.7%	4466
Barrancabermeja	9.6%	8.7%	23.3%	55.9%	2.5%	1795
Barranquilla	10.7%	9.7%	19.6%	56.7%	3.3%	7802
Bello	8.4%	8.8%	15.5%	65.6%	1.7%	2933
Bogotá, D.C.	6.7%	6.1%	18.0%	66.4%	2.9%	47935
Bolívar	12.0%	14.4%	22.1%	46.2%	5.4%	8299
Boyacá	9.2%	10.3%	19.7%	58.9%	1.9%	6891
Bucaramanga	7.7%	6.3%	17.8%	66.7%	1.5%	3829
Buenaventura	10.8%	10.5%	17.4%	57.9%	3.3%	2848
Buga	7.4%	8.2%	18.9%	61.2%	4.4%	822
Caldas	8.5%	9.3%	19.8%	60.2%	2.2%	4507
Cali	8.5%	8.0%	19.3%	61.5%	2.7%	14472
Caquetá	10.2%	10.2%	16.9%	60.1%	2.6%	2765
Cartagena	11.1%	11.0%	17.5%	56.1%	4.4%	8117
Cartago	10.2%	9.9%	19.1%	58.1%	2.6%	810
Casanare	10.0%	10.2%	22.6%	54.4%	2.7%	2226
Cauca	8.7%	10.2%	18.7%	59.2%	3.2%	9633
Cesar	11.3%	11.2%	16.5%	57.4%	3.6%	6653
Chocó	10.5%	15.0%	17.2%	51.6%	5.7%	3467
Chía	6.6%	4.5%	16.0%	71.1%	1.9%	961
Ciénaga	8.6%	11.3%	12.5%	62.0%	5.7%	1145
Cundinamarca	8.2%	7.8%	19.2%	63.0%	1.8%	11913
Córdoba	10.8%	12.7%	20.5%	51.9%	4.1%	9883
Cúcuta	9.9%	7.8%	23.7%	56.9%	1.7%	5554
Dosquebradas	8.3%	6.5%	19.8%	62.4%	2.9%	1195
Duitama	4.0%	7.1%	16.0%	72.3%	0.7%	1002
Envigado	4.9%	6.0%	12.9%	74.9%	1.3%	989
Facatativá	5.9%	8.1%	20.5%	61.6%	3.9%	1082
Florencia	9.7%	9.8%	21.1%	57.0%	2.4%	1576
Floridablanca	6.4%	6.8%	18.1%	67.4%	1.3%	1916
Fusagasugá	8.7%	8.4%	21.2%	60.7%	1.0%	1029
Girardot	12.8%	10.8%	19.6%	52.8%	4.1%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	11.9%	10.7%	19.6%	54.6%	3.2%	2578
Soacha	7.7%	7.7%	19.4%	63.4%	1.8%	4048
Sogamoso	6.8%	7.5%	19.4%	65.5%	0.8%	1119
Soledad	10.3%	9.9%	18.6%	58.7%	2.5%	3865
Sucre	12.0%	13.6%	21.6%	48.8%	4.0%	6080
Tolima	9.6%	10.6%	19.9%	57.2%	2.7%	7517
Tuluá	8.2%	9.0%	20.5%	60.4%	1.9%	1638
Tumaco	10.3%	14.3%	17.7%	50.0%	7.7%	2161
Tunja	6.5%	8.3%	15.1%	68.5%	1.6%	1288
Turbo	13.6%	13.1%	20.2%	48.6%	4.5%	1473
Uribia	11.7%	13.0%	18.4%	48.0%	8.9%	729
Valle del Cauca	9.1%	9.5%	21.4%	57.1%	3.0%	6460
Valledupar	9.5%	10.0%	18.3%	58.0%	4.3%	3519
Vaupés	33.3%	0.0%	0.0%	16.7%	50.0%	6
Vichada	7.6%	11.6%	19.3%	57.8%	3.7%	543
Villavicencio	8.5%	8.0%	19.5%	62.1%	1.8%	4133
Yopal	8.7%	7.9%	20.0%	60.8%	2.7%	1346
Yumbo	9.3%	9.0%	22.5%	58.4%	0.8%	933
Zipaquirá	7.2%	6.5%	20.7%	64.4%	1.2%	987
Colombia	9.1%	9.4%	19.1%	59.4%	3.0%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



Sobre algunos productos del supermercado se pegan adhesivos como los siguientes:

significa descuento de \$2.000
significa descuento de \$1.000
significa descuento de \$500
significa descuento de \$200

En el supermercado, este producto



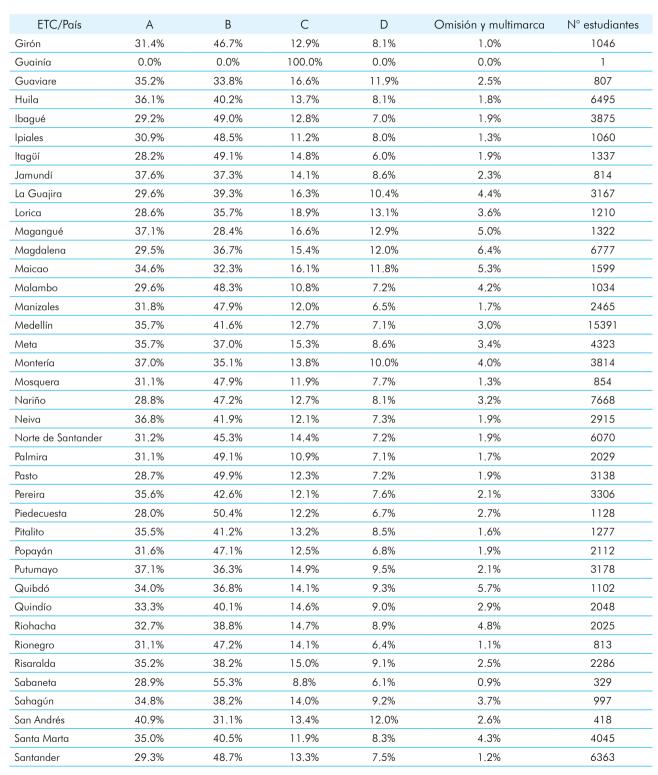
tiene un descuento de

- A. dos mil pesos.
- B. mil pesos.
- C. quinientos pesos.
- D. doscientos pesos.

Competencia	Comunicación, representación y modelación.					
Componente	Numérico - variacional					
Afirmación	Reconocer equivalencias entre diferentes tipos de representaciones relacionadas con números					
Nivel de desempeño	Avanzado					
Respuesta Correcta	В					

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	34.6%	33.5%	14.5%	12.1%	5.3%	800
Antioquia	35.0%	39.8%	13.4%	8.8%	3.0%	22994
Apartadó	35.3%	34.9%	15.4%	10.7%	3.7%	1357
Arauca	34.6%	39.2%	13.9%	9.3%	2.9%	2079
Armenia	33.0%	43.5%	14.0%	8.5%	1.1%	1916
Atlántico	28.2%	42.8%	14.1%	10.2%	4.7%	4466
Barrancabermeja	35.2%	41.1%	13.0%	8.1%	2.7%	1795
Barranquilla	33.9%	42.8%	11.8%	7.9%	3.5%	7802
Bello	33.2%	45.4%	12.6%	6.9%	1.9%	2933
Bogotá, D.C.	27.0%	52.6%	11.5%	6.1%	2.7%	47935
Bolívar	33.2%	31.5%	16.8%	12.3%	6.2%	8299
Boyacá	33.8%	38.2%	17.1%	9.0%	1.9%	6891
Bucaramanga	29.1%	52.9%	10.9%	5.7%	1.4%	3829
Buenaventura	32.7%	42.5%	12.1%	9.7%	3.0%	2848
Buga	31.0%	45.4%	12.7%	6.9%	4.0%	822
Caldas	33.9%	42.9%	13.2%	8.0%	2.0%	4507
Cali	29.3%	49.5%	11.9%	6.5%	2.8%	14472
Caquetá	32.7%	40.3%	14.9%	10.1%	2.1%	2765
Cartagena	31.4%	45.1%	11.6%	7.7%	4.1%	8117
Cartago	36.4%	39.9%	13.8%	7.3%	2.6%	810
Casanare	39.7%	33.7%	13.9%	9.9%	2.7%	2226
Cauca	28.1%	46.7%	12.9%	9.1%	3.2%	9633
Cesar	31.9%	42.2%	13.2%	9.1%	3.6%	6653
Chocó	27.1%	32.4%	18.0%	16.1%	6.4%	3467
Chía	28.2%	54.4%	10.5%	5.2%	1.7%	961
Ciénaga	24.5%	48.8%	12.1%	7.9%	6.6%	1145
Cundinamarca	30.0%	47.5%	13.5%	7.3%	1.8%	11913
Córdoba	31.5%	36.9%	16.6%	10.6%	4.4%	9883
Cúcuta	38.6%	40.8%	12.0%	7.2%	1.4%	5554
Dosquebradas	31.4%	46.4%	11.8%	7.2%	3.3%	1195
Duitama	21.5%	60.4%	12.4%	5.2%	0.6%	1002
Envigado	24.6%	60.6%	9.2%	4.6%	1.1%	989
Facatativá	30.8%	46.5%	12.9%	6.2%	3.6%	1082
Florencia	33.9%	39.4%	15.7%	8.4%	2.6%	1576
Floridablanca	29.1%	52.2%	11.7%	5.9%	1.0%	1916
Fusagasugá	34.2%	43.7%	13.6%	7.3%	1.2%	1029
0 0						



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	32.2%	44.3%	13.0%	7.8%	2.8%	2578
Soacha	31.2%	48.8%	12.3%	6.0%	1.7%	4048
Sogamoso	29.5%	51.6%	12.2%	6.3%	0.5%	1119
Soledad	34.3%	44.0%	11.9%	7.4%	2.5%	3865
Sucre	31.1%	35.6%	17.5%	11.2%	4.6%	6080
Tolima	31.7%	40.6%	15.9%	9.5%	2.4%	7517
Tuluá	32.8%	47.1%	11.5%	6.5%	2.2%	1638
Tumaco	27.3%	35.5%	15.6%	12.8%	8.7%	2161
Tunja	22.7%	58.4%	11.8%	5.4%	1.6%	1288
Turbo	34.4%	32.0%	17.5%	10.9%	5.1%	1473
Uribia	28.3%	31.0%	18.5%	12.9%	9.3%	729
Valle del Cauca	33.0%	41.8%	13.2%	8.8%	3.1%	6460
Valledupar	33.6%	42.2%	11.7%	8.1%	4.5%	3519
Vaupés	16.7%	16.7%	0.0%	16.7%	50.0%	6
Vichada	35.2%	35.2%	15.7%	10.7%	3.3%	543
Villavicencio	34.0%	46.2%	11.3%	6.9%	1.6%	4133
Yopal	37.1%	37.7%	13.9%	8.8%	2.6%	1346
Yumbo	34.2%	40.3%	15.6%	7.3%	2.6%	933
Zipaquirá	27.0%	53.4%	12.4%	5.9%	1.4%	987
Colombia	31.7%	43.8%	13.3%	8.2%	3.0%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 4.

En un establecimiento de comidas rápidas venden estos combos:

Combo 1	Combo 2	Combo 3	Combo 4
Hamburguesa y	Perro caliente	Empanada y	Papas y
gaseosa	y gaseosa	gaseosa	gaseosa

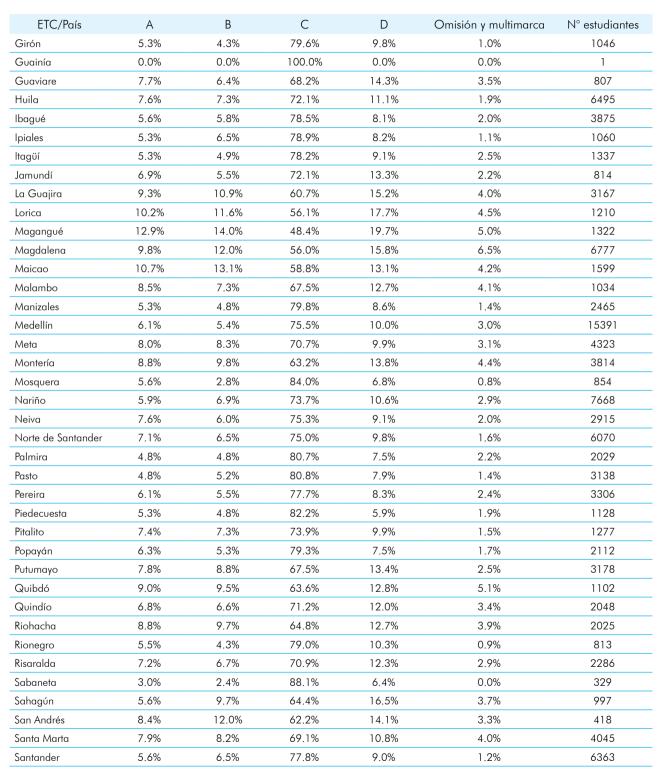
Daniel quiere una empanada y una gaseosa. ¿Qué combo debe pedir?

- A. El 1
- B. El 2
- C. El 3
- D. El 4

Competencia	Comunicación, representación y modelación
Componente	Numérico - variacional
Afirmación	Reconocer el uso de números naturales en diferentes contextos.
Nivel de desempeño	Mínimo
Respuesta Correcta	С

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	7.5%	8.9%	63.6%	15.5%	4.5%	800
Antioquia	8.0%	7.6%	69.6%	11.9%	2.9%	22994
Apartadó	10.7%	9.7%	62.4%	12.9%	4.3%	1357
Arauca	8.6%	6.9%	72.1%	10.0%	2.5%	2079
Armenia	7.2%	7.2%	75.4%	9.1%	1.2%	1916
Atlántico	8.7%	9.1%	64.5%	12.8%	4.9%	4466
Barrancabermeja	6.9%	6.5%	75.0%	9.1%	2.5%	1795
Barranquilla	7.4%	8.2%	71.4%	9.9%	3.2%	7802
Bello	6.5%	5.0%	79.0%	8.0%	1.5%	2933
Bogotá, D.C.	4.3%	4.0%	82.7%	6.3%	2.7%	47935
Bolívar	11.8%	13.0%	50.5%	18.5%	6.2%	8299
Boyacá	7.6%	8.2%	71.4%	11.2%	1.7%	6891
Bucaramanga	4.3%	4.5%	84.3%	5.7%	1.1%	3829
Buenaventura	9.3%	7.6%	68.5%	11.8%	2.8%	2848
Buga	5.1%	7.1%	76.3%	6.8%	4.7%	822
Caldas	6.8%	7.4%	73.6%	10.1%	2.1%	4507
Cali	5.6%	5.3%	78.7%	7.9%	2.5%	14472
Caquetá	8.5%	9.9%	67.0%	12.7%	2.0%	2765
Cartagena	7.2%	7.8%	70.1%	11.0%	3.8%	8117
Cartago	6.7%	4.4%	76.4%	9.9%	2.6%	810
Casanare	7.8%	8.8%	70.3%	10.7%	2.5%	2226
Cauca	7.9%	8.2%	67.8%	12.6%	3.6%	9633
Cesar	7.5%	9.5%	66.3%	13.3%	3.3%	6653
Chocó	10.4%	12.2%	53.6%	17.1%	6.7%	3467
Chía	4.0%	3.3%	84.2%	7.1%	1.5%	961
Ciénaga	8.1%	9.5%	67.2%	9.6%	5.6%	1145
Cundinamarca	5.6%	6.0%	78.8%	7.9%	1.7%	11913
Córdoba	10.1%	10.9%	57.8%	17.1%	4.0%	9883
Cúcuta	5.7%	6.7%	77.3%	8.9%	1.4%	5554
Dosquebradas	5.9%	4.2%	80.1%	7.4%	2.5%	1195
Duitama	4.0%	4.1%	86.7%	5.0%	0.2%	1002
Envigado	3.0%	3.6%	87.6%	4.9%	0.9%	989
Facatativá	4.2%	3.7%	82.1%	6.4%	3.7%	1082
Florencia	9.4%	8.6%	69.4%	9.8%	2.8%	1576
Floridablanca	3.4%	4.2%	84.4%	6.9%	1.1%	1916
Fusagasugá	5.8%	4.9%	80.5%	7.0%	1.8%	1029
Girardot	6.1%	8.3%	72.2%	10.2%	3.2%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.5%	8.9%	70.6%	9.5%	2.5%	2578
Soacha	5.2%	4.8%	81.0%	7.3%	1.7%	4048
Sogamoso	4.6%	5.3%	82.5%	6.4%	1.2%	1119
Soledad	6.8%	7.7%	74.4%	8.9%	2.2%	3865
Sucre	10.5%	12.2%	55.4%	17.5%	4.5%	6080
Tolima	8.4%	8.0%	68.3%	12.8%	2.4%	7517
Tuluá	5.9%	5.3%	78.0%	8.7%	2.1%	1638
Tumaco	12.7%	10.5%	52.7%	15.7%	8.4%	2161
Tunja	5.1%	4.8%	82.1%	6.7%	1.2%	1288
Turbo	13.2%	11.3%	54.2%	16.4%	4.8%	1473
Uribia	9.3%	14.5%	52.8%	14.5%	8.8%	729
Valle del Cauca	7.0%	7.8%	72.3%	10.0%	2.8%	6460
Valledupar	7.4%	8.1%	69.9%	10.4%	4.2%	3519
Vaupés	0.0%	0.0%	50.0%	0.0%	50.0%	6
Vichada	7.9%	9.0%	65.6%	13.6%	3.9%	543
Villavicencio	5.2%	5.8%	80.0%	7.2%	1.9%	4133
Yopal	6.1%	6.2%	78.4%	7.0%	2.3%	1346
Yumbo	6.6%	8.0%	72.3%	10.3%	2.7%	933
Zipaquirá	4.9%	3.9%	82.6%	7.4%	1.3%	987
Colombia	7.0%	7.2%	72.5%	10.4%	2.9%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 5.

Diana tenía 5 dulces y Pedro tenía 3. Luego Roberto le regaló 2 dulces a cada uno.

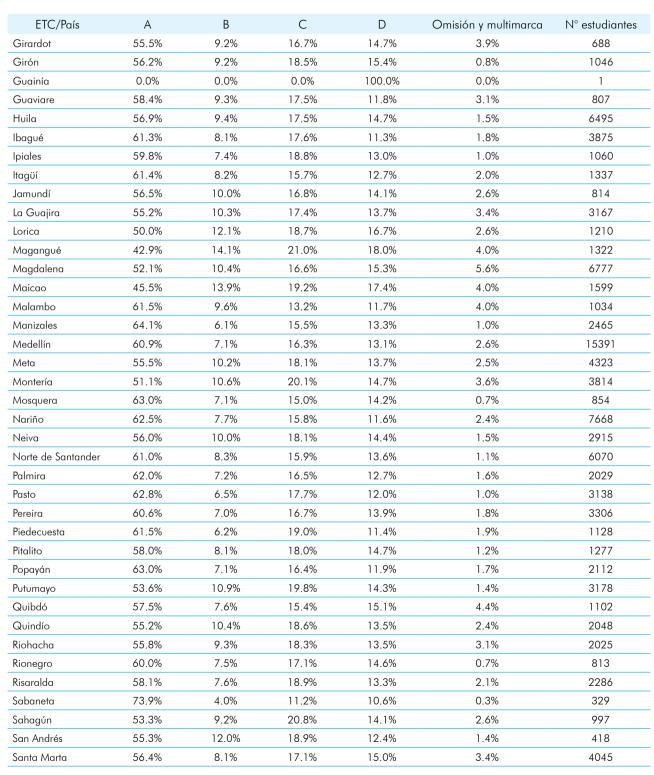
¿Cuál de las siguientes afirmaciones es correcta?

- A. Quien tenía más dulces sigue teniendo más.
- B. Ahora los dos tienen menos dulces que antes.
- C. Ahora los dos tienen la misma cantidad de dulces.
- D. Quien tenía más dulces, ahora tiene menos.

Competencia	Razonamiento y argumentación
Componente	Numérico - variacional
Afirmación	Usar operaciones y propiedades de los números naturales para establecer relaciones entre ellos en situaciones específicas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	49.4%	11.3%	19.8%	16.4%	3.3%	800
Antioquia	58.9%	8.6%	16.3%	13.9%	2.4%	22994
Apartadó	53.9%	9.7%	18.5%	14.7%	3.2%	1357
Arauca	57.7%	9.3%	17.4%	14.0%	1.6%	2079
Armenia	57.5%	9.6%	19.9%	12.2%	0.9%	1916
Atlántico	56.3%	9.6%	16.5%	13.1%	4.4%	4466
Barrancabermeja	59.1%	9.5%	16.2%	12.7%	2.5%	1795
Barranquilla	57.6%	7.9%	18.8%	13.0%	2.7%	7802
Bello	62.4%	6.9%	17.7%	11.8%	1.2%	2933
Bogotá, D.C.	63.9%	6.2%	15.3%	12.2%	2.5%	47935
Bolívar	46.2%	12.6%	18.6%	17.4%	5.1%	8299
Boyacá	56.1%	9.8%	17.9%	14.8%	1.4%	6891
Bucaramanga	65.8%	6.7%	15.5%	10.9%	1.1%	3829
Buenaventura	60.4%	7.4%	16.2%	13.8%	2.3%	2848
Buga	59.6%	5.2%	17.8%	13.5%	3.9%	822
Caldas	60.3%	7.7%	17.3%	13.2%	1.6%	4507
Cali	62.9%	7.0%	15.7%	12.0%	2.4%	14472
Caquetá	59.3%	10.6%	16.5%	12.2%	1.5%	2765
Cartagena	59.6%	8.3%	16.5%	12.5%	3.2%	8117
Cartago	61.9%	7.2%	17.7%	11.5%	1.9%	810
Casanare	52.2%	9.7%	19.2%	16.8%	2.2%	2226
Cauca	60.0%	7.6%	15.9%	13.6%	2.9%	9633
Cesar	57.7%	8.3%	17.7%	13.4%	2.9%	6653
Chocó	52.6%	11.7%	14.8%	15.9%	5.0%	3467
Chía	65.9%	4.8%	15.2%	12.8%	1.4%	961
Ciénaga	60.1%	8.7%	14.6%	10.9%	5.7%	1145
Cundinamarca	60.5%	7.7%	16.7%	13.7%	1.4%	11913
Córdoba	50.8%	11.8%	18.5%	15.7%	3.2%	9883
Cúcuta	58.0%	8.4%	17.6%	14.7%	1.4%	5554
Dosquebradas	61.7%	6.2%	18.1%	11.1%	2.9%	1195
Duitama	67.8%	7.1%	16.2%	8.8%	0.2%	1002
Envigado	72.8%	5.8%	11.9%	8.6%	0.9%	989
Facatativá	60.5%	7.0%	17.5%	11.5%	3.5%	1082
Florencia	54.3%	9.8%	17.8%	15.5%	2.5%	1576
Floridablanca	64.7%	7.2%	14.8%	12.6%	0.7%	1916
Fusagasugá	59.7%	6.6%	19.8%	12.4%	1.5%	1029

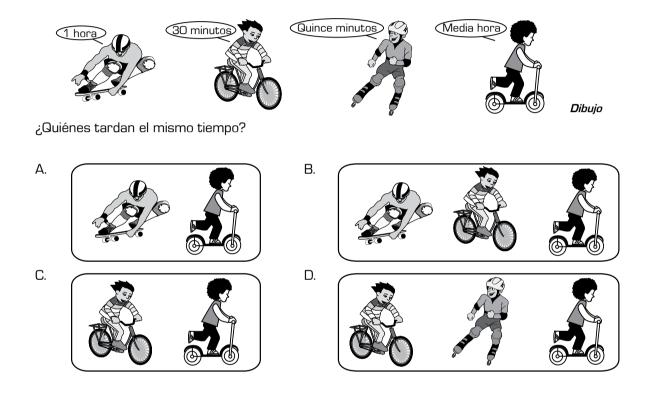


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Santander	62.0%	8.1%	15.6%	13.3%	1.1%	6363
Sincelejo	58.2%	9.7%	18.3%	11.4%	2.3%	2578
Soacha	60.3%	7.7%	16.9%	13.6%	1.4%	4048
Sogamoso	62.9%	7.0%	15.6%	14.1%	0.4%	1119
Soledad	60.3%	8.7%	15.9%	12.7%	2.4%	3865
Sucre	50.3%	11.8%	18.8%	16.0%	3.1%	6080
Tolima	56.2%	8.8%	18.8%	14.4%	1.8%	7517
Tuluá	61.4%	6.7%	18.9%	11.4%	1.8%	1638
Tumaco	51.1%	10.7%	15.7%	15.4%	7.1%	2161
Tunja	65.5%	7.8%	14.2%	11.7%	0.9%	1288
Turbo	48.1%	11.3%	17.9%	18.3%	4.4%	1473
Uribia	43.6%	13.3%	19.1%	17.4%	6.6%	729
Valle del Cauca	57.9%	8.3%	17.3%	14.2%	2.2%	6460
Valledupar	59.5%	7.6%	15.8%	13.6%	3.6%	3519
Vaupés	33.3%	0.0%	0.0%	16.7%	50.0%	6
Vichada	55.6%	10.5%	16.4%	14.5%	2.9%	543
Villavicencio	60.2%	8.0%	17.9%	12.6%	1.4%	4133
Yopal	58.2%	8.6%	16.0%	15.2%	1.9%	1346
Yumbo	56.7%	8.3%	18.0%	15.4%	1.6%	933
Zipaquirá	65.8%	6.3%	14.0%	12.4%	1.6%	987
Colombia	58.8%	8.4%	16.9%	13.5%	2.5%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



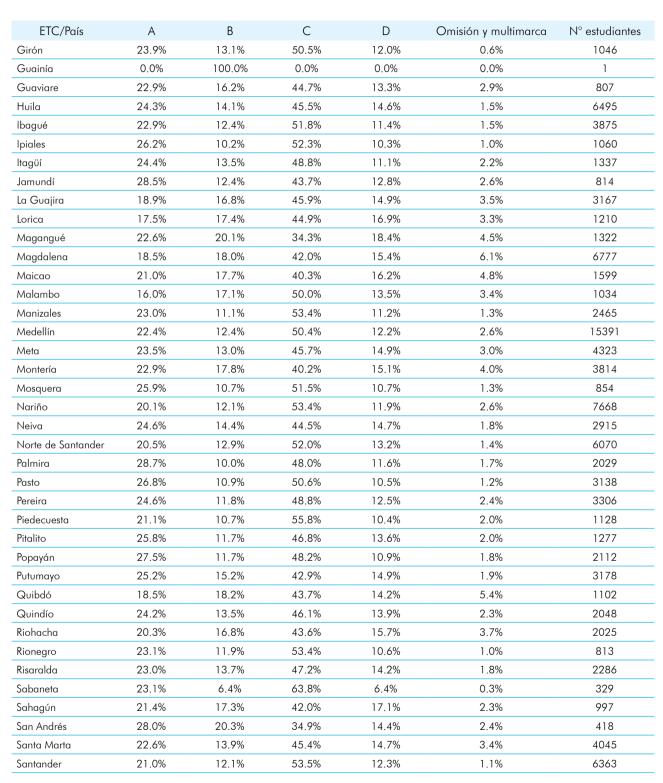
El tiempo que tardan cuatro amigos para llegar de su casa al parque se muestra en el dibujo.



Competencia	Planteamiento y resolución de problemas						
Componente	Geométrico - métrico						
Afirmación	Desarrollar procesos de medición usando patrones e instrumentos estandarizados.						
Nivel de desempeño	Avanzado						
Respuesta Correcta	С						

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	23.1%	20.4%	36.6%	16.1%	3.8%	800
Antioquia	21.3%	14.6%	47.9%	13.6%	2.6%	22994
Apartadó	23.1%	16.1%	43.3%	13.6%	3.9%	1357
Arauca	23.3%	13.0%	46.3%	15.7%	1.7%	2079
Armenia	24.0%	12.6%	49.1%	12.9%	1.5%	1916
Atlántico	18.6%	16.6%	46.7%	13.6%	4.5%	4466
Barrancabermeja	23.2%	13.6%	47.6%	12.7%	2.9%	1795
Barranquilla	21.6%	14.1%	47.0%	14.4%	2.9%	7802
Bello	24.0%	11.9%	52.6%	10.2%	1.3%	2933
Bogotá, D.C.	24.6%	10.2%	52.1%	10.3%	2.7%	47935
Bolívar	20.2%	20.0%	36.7%	17.7%	5.5%	8299
Boyacá	23.9%	14.4%	45.4%	14.6%	1.7%	6891
Bucaramanga	22.0%	11.3%	55.7%	10.1%	1.0%	3829
Buenaventura	21.3%	15.6%	44.8%	15.7%	2.6%	2848
Buga	29.0%	10.8%	42.8%	12.9%	4.5%	822
Caldas	23.0%	13.2%	48.8%	13.2%	1.8%	4507
Cali	26.9%	10.7%	48.8%	11.2%	2.4%	14472
Caquetá	19.0%	13.9%	51.4%	13.9%	1.9%	2765
Cartagena	20.3%	13.3%	48.8%	14.0%	3.6%	8117
Cartago	25.1%	12.0%	50.1%	10.6%	2.2%	810
Casanare	26.5%	14.8%	39.8%	16.1%	2.7%	2226
Cauca	20.9%	13.9%	48.9%	13.4%	2.9%	9633
Cesar	19.1%	15.1%	47.8%	14.9%	3.1%	6653
Chocó	17.4%	19.5%	40.6%	16.9%	5.6%	3467
Chía	23.3%	8.5%	57.8%	9.6%	0.8%	961
Ciénaga	15.6%	13.2%	54.4%	11.7%	5.1%	1145
Cundinamarca	24.0%	11.2%	51.3%	11.8%	1.7%	11913
Córdoba	20.4%	18.2%	41.2%	16.4%	3.8%	9883
Cúcuta	25.5%	11.8%	48.6%	12.8%	1.4%	5554
Dosquebradas	24.4%	10.5%	51.4%	11.1%	2.7%	1195
Duitama	20.9%	10.2%	60.4%	8.4%	0.2%	1002
Envigado	18.9%	8.4%	62.7%	8.6%	1.4%	989
Facatativá	22.9%	10.5%	51.7%	11.1%	3.8%	1082
Florencia	24.1%	13.6%	44.0%	16.0%	2.2%	1576
			55.2%	11.3%	1.0%	1916
Floridablanca	22.0%	10.5%	33.2%	11.570	1.076	1910
Floridablanca Fusagasugá	22.0% 24.6%	10.5%	49.5%	12.1%	1.1%	1918

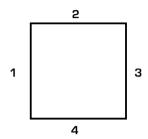


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	21.8%	14.9%	47.2%	13.7%	2.4%	2578
Soacha	25.3%	11.2%	50.4%	11.4%	1.7%	4048
Sogamoso	24.5%	9.4%	55.8%	9.8%	0.5%	1119
Soledad	19.9%	12.4%	51.6%	13.9%	2.2%	3865
Sucre	20.1%	19.6%	38.9%	17.8%	3.5%	6080
Tolima	21.5%	15.8%	46.1%	14.4%	2.3%	7517
Tuluá	24.8%	10.9%	51.0%	11.7%	1.6%	1638
Tumaco	18.7%	19.3%	41.1%	14.0%	6.8%	2161
Tunja	22.4%	8.9%	58.2%	9.8%	0.9%	1288
Turbo	22.3%	18.4%	38.3%	16.6%	4.4%	1473
Uribia	20.2%	18.5%	40.3%	13.0%	8.0%	729
Valle del Cauca	24.8%	13.3%	44.9%	14.2%	2.7%	6460
Valledupar	22.1%	14.2%	46.3%	13.4%	4.0%	3519
Vaupés	16.7%	16.7%	16.7%	0.0%	50.0%	6
Vichada	25.4%	13.8%	39.6%	18.2%	2.9%	543
Villavicencio	24.1%	11.6%	50.2%	12.6%	1.5%	4133
Yopal	26.2%	13.8%	45.8%	12.3%	1.9%	1346
Yumbo	28.8%	14.7%	40.6%	15.0%	0.9%	933
Zipaquirá	24.2%	10.8%	51.7%	12.1%	1.2%	987
Colombia	22.7%	13.5%	48.1%	13.1%	2.7%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 7.

Observa los lados 1, 2, 3 y 4 del cuadrado.



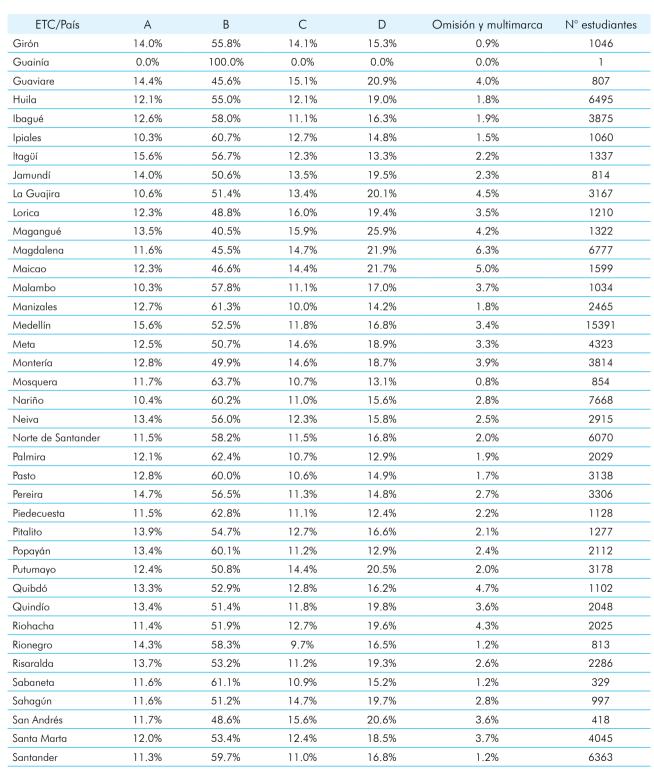
¿Qué lados son paralelos entre sí?

- El 1 y el 2. El 1 y el 3. B.
- El 2 y el 3. El 3 y el 4. C.

Competencia	Razonamiento y argumentación
Componente	Geométrico - métrico
Afirmación	Establecer conjeturas que se aproximen a las nociones de paralelismo y perpendicularidad en figuras planas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	14.0%	43.8%	15.6%	22.6%	4.0%	800
Antioquia	13.3%	53.4%	12.3%	18.1%	2.9%	22994
Apartadó	13.8%	48.8%	14.6%	19.0%	3.8%	1357
Arauca	12.2%	53.7%	13.1%	18.6%	2.3%	2079
Armenia	15.1%	55.0%	11.8%	16.4%	1.7%	1916
Atlántico	11.3%	51.1%	12.6%	20.0%	5.1%	4466
Barrancabermeja	13.5%	55.1%	12.8%	15.6%	3.0%	1795
Barranquilla	12.2%	55.7%	12.7%	16.3%	3.2%	7802
Bello	14.5%	56.4%	11.4%	15.8%	1.9%	2933
Bogotá, D.C.	13.0%	59.9%	10.8%	13.3%	3.0%	47935
Bolívar	13.0%	41.1%	15.9%	24.5%	5.4%	8299
Boyacá	12.2%	52.9%	13.3%	19.5%	2.0%	6891
Bucaramanga	12.7%	61.0%	9.9%	14.5%	1.9%	3829
Buenaventura	11.4%	55.2%	13.2%	17.2%	3.0%	2848
Buga	13.1%	59.6%	10.2%	12.4%	4.6%	822
Caldas	12.6%	56.5%	11.9%	17.0%	2.0%	4507
Cali	12.7%	60.2%	10.6%	13.5%	3.0%	14472
Caquetá	13.3%	54.8%	11.7%	17.9%	2.3%	2765
Cartagena	12.3%	56.4%	11.1%	16.4%	3.7%	8117
Cartago	15.1%	55.9%	11.9%	14.1%	3.1%	810
Casanare	14.4%	48.3%	14.0%	20.5%	2.8%	2226
Саиса	9.4%	57.9%	12.2%	17.0%	3.4%	9633
Cesar	12.4%	52.2%	11.6%	20.5%	3.4%	6653
Chocó	11.7%	45.6%	15.7%	21.8%	5.2%	3467
Chía	12.5%	64.8%	8.9%	12.1%	1.7%	961
Ciénaga	10.9%	55.7%	12.4%	14.5%	6.5%	1145
Cundinamarca	12.1%	58.3%	11.6%	16.2%	1.8%	11913
Córdoba	12.3%	47.6%	14.2%	21.9%	4.0%	9883
Cúcuta	13.1%	56.9%	11.9%	16.6%	1.5%	5554
Dosquebradas	13.0%	55.1%	12.2%	16.9%	2.8%	1195
Duitama	12.6%	61.5%	12.2%	13.2%	0.6%	1002
Envigado	13.5%	64.1%	8.5%	12.4%	1.4%	989
Facatativá	13.8%	56.3%	11.3%	14.1%	4.5%	1082
Florencia	11.9%	53.4%	12.6%	19.5%	2.7%	1576
Floridablanca	12.3%	63.7%	10.8%	12.2%	1.0%	1916
Fusagasugá	13.6%	55.1%	12.3%	16.5%	2.4%	1029
Girardot	15.4%	53.6%	11.5%	15.7%	3.8%	688

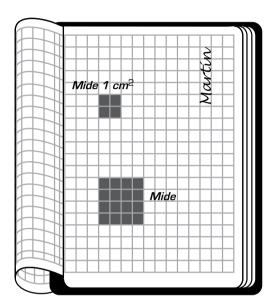


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	13.3%	54.8%	13.2%	16.1%	2.6%	2578
Soacha	12.9%	57.2%	13.4%	14.5%	2.0%	4048
Sogamoso	16.1%	57.7%	12.5%	12.9%	0.8%	1119
Soledad	11.9%	57.6%	11.7%	16.2%	2.5%	3865
Sucre	12.3%	45.6%	14.6%	23.6%	3.9%	6080
Tolima	11.9%	53.4%	12.0%	20.0%	2.7%	7517
Tuluá	12.8%	59.6%	11.7%	14.0%	2.0%	1638
Tumaco	11.0%	44.7%	14.9%	21.4%	7.9%	2161
Tunja	12.0%	62.4%	10.8%	13.5%	1.2%	1288
Turbo	14.7%	42.6%	15.1%	22.3%	5.3%	1473
Uribia	10.8%	43.6%	16.7%	20.2%	8.6%	729
Valle del Cauca	13.4%	52.9%	12.2%	18.5%	3.0%	6460
Valledupar	11.7%	53.5%	12.6%	17.9%	4.3%	3519
Vaupés	0.0%	33.3%	16.7%	0.0%	50.0%	6
Vichada	11.4%	44.4%	15.3%	25.8%	3.1%	543
Villavicencio	14.1%	58.6%	11.2%	14.4%	1.8%	4133
Yopal	12.8%	51.9%	14.6%	17.8%	2.8%	1346
Yumbo	17.1%	48.0%	15.9%	17.6%	1.4%	933
Zipaquirá	12.7%	60.7%	11.9%	13.3%	1.5%	987
Colombia	12.7%	55.0%	12.2%	17.1%	3.0%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 8.

Este es el cuaderno de matemáticas de Martín.



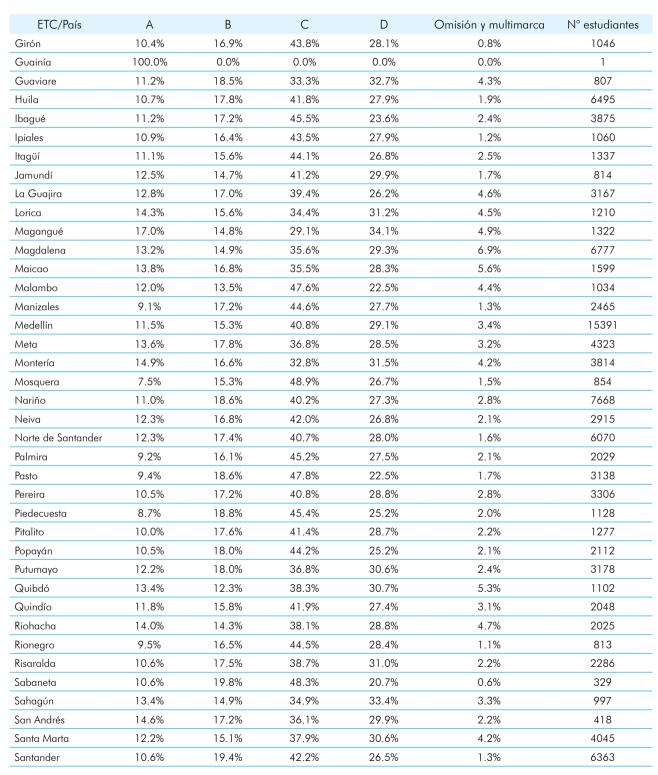
¿Cuál es la medida del cuadrado más grande que dibujó Martín?

- A. 1 cm².
- B. 2 cm².
- C. 4 cm².
- D. 8 cm².

Competencia	Planteamiento y resolución de problemas						
Componente	Geométrico - métrico						
Afirmación	Desarrollar procesos de medición usando patrones e instrumentos estandarizados.						
Nivel de desempeño	Avanzado						
Respuesta Correcta	С						

• Resultados a nivel de Entidad Territorial certificada (ETC)

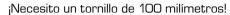
Amazonas 10.0% 17.0% 32.9% 34.8% 5.4% 800 Antioquia 11.7% 16.4% 38.5% 30.2% 3.2% 22994 Aportadó 13.0% 14.7% 40.2% 28.4% 3.7% 1357 Arouca 11.9% 15.9% 40.3% 29.3% 2.6% 2079 Armenia 12.7% 18.3% 41.5% 25.9% 1.6% 1916 Alfolnico 12.8% 15.2% 36.3% 30.2% 5.4% 4466 Barrancebermeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barrancebermeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barrancella 13.8% 14.9% 40.3% 27.7% 3.4% 7802 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Begoh, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Belloa	ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Aportadó 13.0% 14.7% 40.2% 28.4% 3.7% 1357 Arauca 11.9% 15.9% 40.3% 29.3% 2.6% 2079 Armenia 12.7% 18.3% 41.5% 25.9% 1.6% 1916 Allóntico 12.8% 15.2% 36.3% 30.2% 5.4% 4466 Barrancabermeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barranquilla 13.8% 14.9% 40.3% 27.7% 3.4% 7802 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Begotó, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bollvar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 30.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Bucaramanga	Amazonas	10.0%	17.0%	32.9%	34.8%	5.4%	800
Arauca 11.9% 15.9% 40.3% 29.3% 2.6% 2079 Armenia 12.7% 18.3% 41.5% 25.9% 1.6% 1916 Arliántico 12.8% 15.2% 36.3% 30.2% 5.4% 4466 Barrancabemeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barrancabemeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barrancabemeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Beglo 10.5% 18.2% 47.0% 23.6% 3.0% 47935 Bollvar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 8829 Buearamenga 9.5% 18.5% 45.4% 24.9% 1.7% 829 Buearamanga	Antioquia	11.7%	16.4%	38.5%	30.2%	3.2%	22994
Armenia 12.7% 18.3% 41.5% 25.9% 1.6% 1916 Allántico 12.8% 15.2% 36.3% 30.2% 5.4% 4466 Barranquilla 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Bogotó, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolívar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacó 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucarramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Bucarovantara 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% </td <td>Apartadó</td> <td>13.0%</td> <td>14.7%</td> <td>40.2%</td> <td>28.4%</td> <td>3.7%</td> <td>1357</td>	Apartadó	13.0%	14.7%	40.2%	28.4%	3.7%	1357
Alfonico 12.8% 15.2% 36.3% 30.2% 5.4% 4466 Barrancabermeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barrancylla 13.8% 14.7% 40.3% 27.7% 3.4% 7802 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Bogotó, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolfvar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacó 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenoventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.	Arauca	11.9%	15.9%	40.3%	29.3%	2.6%	2079
Borrancobermeja 12.2% 17.4% 37.2% 30.4% 2.8% 1795 Barranquilla 13.8% 14.9% 40.3% 27.7% 3.4% 7802 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Bogotá, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolivar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14.472 Caula 11.	Armenia	12.7%	18.3%	41.5%	25.9%	1.6%	1916
Barranquilla 13.8% 14.9% 40.3% 27.7% 3.4% 7802 Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Bogold, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolivar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 16.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% <td>Atlántico</td> <td>12.8%</td> <td>15.2%</td> <td>36.3%</td> <td>30.2%</td> <td>5.4%</td> <td>4466</td>	Atlántico	12.8%	15.2%	36.3%	30.2%	5.4%	4466
Bello 10.5% 15.7% 43.0% 29.3% 1.6% 2933 Bogotó, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolror 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 36.0% 30.5% 1.7% 3829 Bucaramonga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.0% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8110 Casarare 12.0%	Barrancabermeja	12.2%	17.4%	37.2%	30.4%	2.8%	1795
Bogotó, D.C. 8.3% 18.2% 47.0% 23.6% 3.0% 47935 Bolívar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetó 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartagena 11.9%	Barranquilla	13.8%	14.9%	40.3%	27.7%	3.4%	7802
Bolivar 15.0% 16.4% 30.2% 31.8% 6.6% 8299 Boyacá 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.6% 37.5% 30.9% 3.1% 22226 Cauca 10.6%	Bello	10.5%	15.7%	43.0%	29.3%	1.6%	2933
Boyacá 12.1% 19.4% 36.0% 30.5% 1.9% 6891 Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Carlagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Carlago 11.9% 16.6% 37.5% 30.9% 3.1% 2226 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9%	Bogotá, D.C.	8.3%	18.2%	47.0%	23.6%	3.0%	47935
Bucaramanga 9.5% 18.5% 45.4% 24.9% 1.7% 3829 Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartagena 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chica 9.8% <	Bolívar	15.0%	16.4%	30.2%	31.8%	6.6%	8299
Buenaventura 13.0% 15.6% 37.2% 30.6% 3.5% 2848 Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5%	Boyacá	12.1%	19.4%	36.0%	30.5%	1.9%	6891
Buga 10.7% 16.5% 42.3% 26.3% 4.1% 822 Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1%	Bucaramanga	9.5%	18.5%	45.4%	24.9%	1.7%	3829
Caldas 11.2% 17.2% 39.3% 30.1% 2.3% 4507 Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16	Buenaventura	13.0%	15.6%	37.2%	30.6%	3.5%	2848
Cali 10.8% 17.0% 44.2% 25.0% 3.0% 14472 Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cudiamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.	Buga	10.7%	16.5%	42.3%	26.3%	4.1%	822
Caquetá 11.5% 19.3% 38.0% 29.2% 2.0% 2765 Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6%	Caldas	11.2%	17.2%	39.3%	30.1%	2.3%	4507
Cartagena 11.9% 14.6% 42.9% 26.2% 4.3% 8117 Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5%	Cali	10.8%	17.0%	44.2%	25.0%	3.0%	14472
Cartago 11.9% 16.3% 42.2% 27.2% 2.5% 810 Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Envigado 6.6% <	Caquetá	11.5%	19.3%	38.0%	29.2%	2.0%	2765
Casanare 12.0% 16.6% 37.5% 30.9% 3.1% 2226 Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% <	Cartagena	11.9%	14.6%	42.9%	26.2%	4.3%	8117
Cauca 10.6% 18.2% 38.1% 29.5% 3.6% 9633 Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Florencia 14.0% <	Cartago	11.9%	16.3%	42.2%	27.2%	2.5%	810
Cesar 11.9% 15.4% 39.0% 30.0% 3.8% 6653 Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Faccatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0%	Casanare	12.0%	16.6%	37.5%	30.9%	3.1%	2226
Chocó 13.6% 17.9% 29.1% 33.0% 6.4% 3467 Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% <td>Cauca</td> <td>10.6%</td> <td>18.2%</td> <td>38.1%</td> <td>29.5%</td> <td>3.6%</td> <td>9633</td>	Cauca	10.6%	18.2%	38.1%	29.5%	3.6%	9633
Chía 9.8% 20.5% 46.1% 21.7% 1.9% 961 Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2	Cesar	11.9%	15.4%	39.0%	30.0%	3.8%	6653
Ciénaga 9.5% 18.1% 42.9% 23.4% 6.1% 1145 Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Chocó	13.6%	17.9%	29.1%	33.0%	6.4%	3467
Cundinamarca 10.2% 18.7% 43.4% 25.8% 1.9% 11913 Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cócuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Chía	9.8%	20.5%	46.1%	21.7%	1.9%	961
Córdoba 13.9% 16.2% 34.1% 31.2% 4.6% 9883 Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Ciénaga	9.5%	18.1%	42.9%	23.4%	6.1%	1145
Cúcuta 12.6% 17.2% 41.3% 27.1% 1.7% 5554 Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Faccatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Cundinamarca	10.2%	18.7%	43.4%	25.8%	1.9%	11913
Dosquebradas 12.5% 15.7% 41.4% 26.9% 3.5% 1195 Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Córdoba	13.9%	16.2%	34.1%	31.2%	4.6%	9883
Duitama 7.1% 20.6% 49.2% 22.6% 0.6% 1002 Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Cúcuta	12.6%	17.2%	41.3%	27.1%	1.7%	5554
Envigado 6.6% 17.1% 49.7% 25.2% 1.4% 989 Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Dosquebradas	12.5%	15.7%	41.4%	26.9%	3.5%	1195
Facatativá 9.4% 18.0% 41.4% 26.7% 4.4% 1082 Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Duitama	7.1%	20.6%	49.2%	22.6%	0.6%	1002
Florencia 14.0% 19.9% 35.2% 27.9% 3.1% 1576 Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Envigado	6.6%	17.1%	49.7%	25.2%	1.4%	989
Floridablanca 9.0% 21.1% 45.4% 23.2% 1.4% 1916 Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Facatativá	9.4%	18.0%	41.4%	26.7%	4.4%	1082
Fusagasugá 10.2% 18.0% 41.8% 27.9% 2.1% 1029	Florencia	14.0%	19.9%	35.2%	27.9%	3.1%	1576
	Floridablanca	9.0%	21.1%	45.4%	23.2%	1.4%	1916
Girardot 12.4% 15.3% 43.3% 25.3% 3.8% 688	Fusagasugá	10.2%	18.0%	41.8%	27.9%	2.1%	1029
	Girardot	12.4%	15.3%	43.3%	25.3%	3.8%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	14.5%	14.9%	42.3%	25.6%	2.6%	2578
Soacha	10.5%	17.4%	44.3%	25.6%	2.2%	4048
Sogamoso	8.4%	19.8%	45.9%	25.6%	0.3%	1119
Soledad	12.4%	14.7%	42.9%	27.4%	2.5%	3865
Sucre	13.7%	16.0%	33.8%	31.6%	4.9%	6080
Tolima	11.8%	15.4%	40.8%	29.4%	2.6%	7517
Tuluá	11.9%	17.2%	42.8%	26.2%	2.0%	1638
Tumaco	14.3%	16.4%	32.7%	27.2%	9.4%	2161
Tunja	9.3%	19.3%	46.4%	23.9%	1.2%	1288
Turbo	16.8%	16.2%	31.5%	30.0%	5.6%	1473
Uribia	14.8%	18.1%	31.6%	27.2%	8.4%	729
Valle del Cauca	12.3%	16.6%	39.9%	28.2%	3.1%	6460
Valledupar	11.8%	13.5%	39.1%	30.9%	4.7%	3519
Vaupés	0.0%	0.0%	16.7%	33.3%	50.0%	6
Vichada	12.2%	14.9%	32.2%	37.2%	3.5%	543
Villavicencio	11.0%	17.1%	46.1%	24.1%	1.9%	4133
Yopal	10.1%	17.8%	43.7%	25.4%	3.0%	1346
Yumbo	13.5%	15.9%	37.5%	30.4%	2.7%	933
Zipaquirá	10.5%	18.8%	49.1%	19.7%	1.8%	987
Colombia	11.4%	17.0%	40.8%	27.7%	3.2%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 9.





¿Cuál de estos tornillos le sirve al mecánico?

Α.



B.



C.



D.

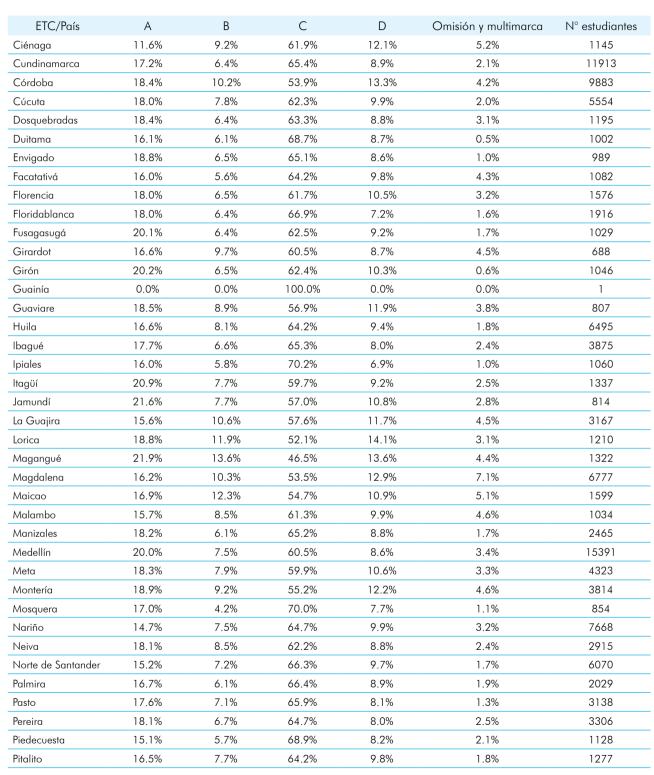


• Estructura

Competencia	Planteamiento y resolución de problemas						
Componente	Geométrico - métrico						
Afirmación	Desarrollar procesos de medición usando patrones e instrumentos estandarizados.						
Nivel de desempeño	Satisfactorio						
Respuesta Correcta	С						

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	17.1%	11.1%	55.4%	11.4%	5.0%	800
Antioquia	17.9%	8.8%	60.1%	9.9%	3.2%	22994
Apartadó	16.9%	11.1%	53.3%	14.6%	4.1%	1357
Arauca	17.1%	7.8%	61.8%	10.8%	2.5%	2079
Armenia	19.7%	8.0%	61.4%	9.6%	1.4%	1916
Atlántico	15.5%	9.5%	58.6%	11.1%	5.3%	4466
Barrancabermeja	19.3%	6.4%	61.8%	9.4%	3.1%	1795
Barranquilla	17.9%	7.0%	62.5%	9.3%	3.4%	7802
Bello	20.1%	6.4%	64.2%	7.5%	1.7%	2933
Bogotá, D.C.	17.8%	5.8%	66.0%	7.4%	3.0%	47935
Bolívar	20.0%	11.6%	47.8%	14.0%	6.7%	8299
Boyacá	18.5%	8.7%	60.4%	10.4%	2.0%	6891
Bucaramanga	17.0%	6.4%	67.3%	7.7%	1.7%	3829
Buenaventura	15.2%	7.8%	60.5%	13.3%	3.2%	2848
Buga	14.7%	7.1%	65.7%	8.9%	3.6%	822
Caldas	15.5%	8.7%	64.1%	9.5%	2.3%	4507
Cali	17.8%	6.1%	65.2%	8.3%	2.6%	14472
Caquetá	15.2%	8.2%	62.8%	12.0%	1.9%	2765
Cartagena	16.8%	7.9%	61.3%	9.8%	4.2%	8117
Cartago	19.1%	8.3%	62.1%	8.1%	2.3%	810
Casanare	17.6%	8.9%	60.5%	9.7%	3.3%	2226
Cauca	14.8%	7.7%	63.4%	10.4%	3.7%	9633
Cesar	15.2%	8.5%	61.1%	11.6%	3.5%	6653
Chocó	16.6%	11.7%	49.7%	15.4%	6.6%	3467
Chía	16.8%	4.4%	69.2%	8.3%	1.4%	961

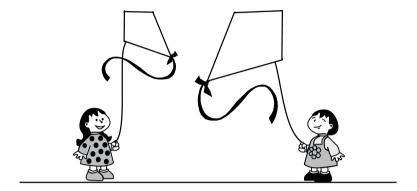


ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Popayán	17.4%	6.2%	66.3%	8.0%	2.2%	2112
Putumayo	18.0%	9.2%	58.9%	11.6%	2.3%	3178
Quibdó	19.2%	9.3%	55.2%	10.7%	5.6%	1102
Quindío	17.6%	7.9%	63.0%	7.9%	3.5%	2048
Riohacha	17.8%	9.0%	58.4%	10.7%	4.1%	2025
Rionegro	19.9%	6.5%	63.3%	8.9%	1.4%	813
Risaralda	17.9%	8.0%	61.2%	10.1%	2.8%	2286
Sabaneta	18.8%	5.2%	67.8%	7.9%	0.3%	329
Sahagún	17.2%	11.0%	56.9%	11.7%	3.2%	997
San Andrés	17.5%	9.6%	60.5%	9.6%	2.9%	418
Santa Marta	17.8%	7.6%	59.9%	10.6%	4.2%	4045
Santander	15.5%	6.7%	67.3%	9.3%	1.2%	6363
Sincelejo	16.6%	9.2%	60.3%	10.9%	3.1%	2578
Soacha	19.4%	5.7%	66.3%	6.9%	1.7%	4048
Sogamoso	18.5%	6.3%	65.6%	8.6%	1.1%	1119
Soledad	17.1%	7.3%	64.1%	9.4%	2.0%	3865
Sucre	18.3%	11.1%	52.5%	13.6%	4.6%	6080
Tolima	17.3%	8.7%	61.3%	10.0%	2.7%	7517
Tuluá	17.5%	6.2%	65.8%	8.2%	2.3%	1638
Tumaco	16.9%	10.7%	48.2%	15.3%	8.9%	2161
Tunja	15.8%	6.3%	66.9%	9.8%	1.2%	1288
Turbo	17.4%	11.6%	50.3%	15.6%	5.1%	1473
Uribia	14.1%	12.8%	51.0%	13.4%	8.6%	729
Valle del Cauca	19.1%	7.7%	60.8%	9.4%	3.1%	6460
Valledupar	15.1%	6.5%	64.2%	9.7%	4.5%	3519
Vaupés	33.3%	0.0%	16.7%	0.0%	50.0%	6
Vichada	14.5%	9.8%	59.7%	13.1%	2.9%	543
Villavicencio	16.9%	6.2%	65.9%	9.1%	1.8%	4133
Yopal	18.6%	8.2%	60.7%	10.2%	2.4%	1346
Yumbo	20.9%	7.6%	58.4%	10.4%	2.7%	933
Zipaquirá	16.5%	5.3%	69.8%	6.8%	1.6%	987
Colombia	17.5%	7.8%	61.8%	9.8%	3.2%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 10.

Dos niñas están elevando cometas en el parque.



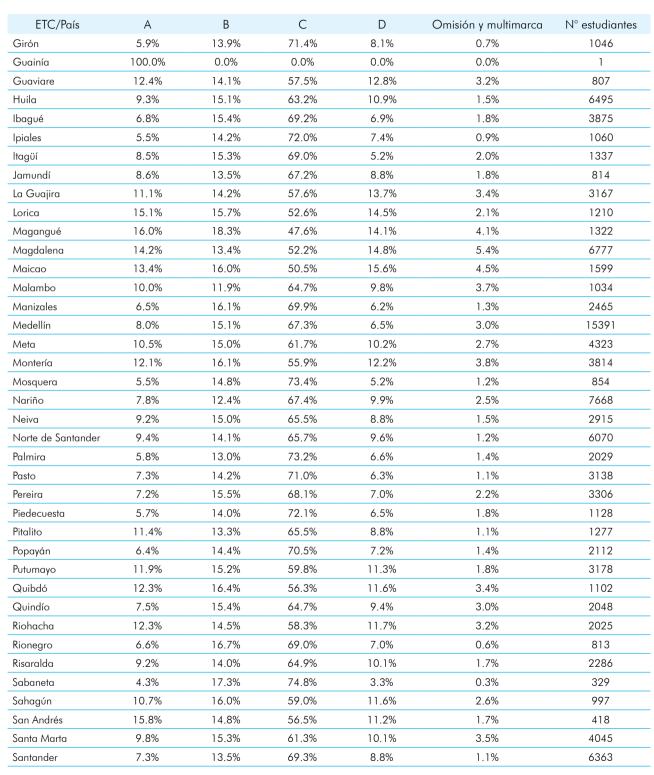
¿Se parecen las cometas?

- A. Sí, porque tienen la misma forma y el mismo tamaño.
- B. No, porque una tiene forma diferente de la otra.
- C. Sí, porque tienen la misma forma pero diferente tamaño.
- D. No, porque una tiene menos lados que la otra.

Competencia	Comunicación, representación y modelación
Componente	Geométrico - métrico
Afirmación	Describir características de figuras que son semejantes o congruentes entre sí.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	С

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	11.6%	14.5%	56.0%	14.0%	3.9%	800
Antioquia	9.6%	14.3%	63.5%	10.0%	2.6%	22994
Apartadó	11.1%	15.9%	58.9%	10.4%	3.7%	1357
Arauca	8.7%	15.0%	65.4%	9.1%	1.9%	2079
Armenia	9.1%	15.6%	66.2%	8.2%	0.9%	1916
Atlántico	12.1%	13.7%	58.4%	11.6%	4.2%	4466
Barrancabermeja	9.1%	14.7%	65.6%	8.2%	2.4%	1795
Barranquilla	9.1%	13.8%	65.0%	9.3%	2.7%	7802
Bello	7.5%	13.9%	71.0%	6.2%	1.4%	2933
Bogotá, D.C.	5.6%	13.6%	72.5%	5.5%	2.8%	47935
Bolívar	15.8%	16.6%	45.6%	16.4%	5.6%	8299
Boyacá	10.7%	16.8%	60.7%	10.2%	1.6%	6891
Bucaramanga	5.4%	14.0%	73.2%	6.0%	1.4%	3829
Buenaventura	10.0%	12.8%	62.7%	12.1%	2.2%	2848
Buga	5.7%	10.3%	73.4%	6.7%	3.9%	822
Caldas	7.9%	15.6%	66.3%	8.5%	1.6%	4507
Cali	6.8%	12.4%	72.1%	6.2%	2.4%	14472
Caquetá	13.3%	13.5%	59.1%	12.4%	1.7%	2765
Cartagena	10.0%	13.7%	63.2%	9.7%	3.5%	8117
Cartago	7.7%	15.7%	67.4%	6.9%	2.3%	810
Casanare	11.3%	16.8%	58.2%	11.4%	2.3%	2226
Cauca	10.3%	13.2%	61.1%	12.4%	3.0%	9633
Cesar	10.4%	13.5%	61.5%	11.7%	2.9%	6653
Chocó	15.3%	15.1%	46.3%	18.2%	5.0%	3467
Chía	6.3%	12.4%	73.9%	6.1%	1.2%	961
Ciénaga	9.3%	12.1%	63.5%	9.7%	5.4%	1145
Cundinamarca	6.8%	14.3%	69.7%	7.4%	1.7%	11913
Córdoba	13.6%	16.1%	51.6%	15.3%	3.4%	9883
Cúcuta	8.1%	15.8%	66.2%	8.6%	1.3%	5554
Dosquebradas	7.2%	15.0%	68.1%	6.6%	3.1%	1195
Duitama	4.7%	15.2%	76.2%	3.6%	0.3%	1002
Envigado	3.0%	13.2%	79.0%	3.5%	1.2%	989
Facatativá	5.5%	16.0%	68.3%	6.0%	4.2%	1082
Florencia	10.0%	16.4%	59.8%	11.1%	2.6%	1576
Floridablanca	5.6%	13.9%	73.9%	5.4%	1.2%	1916
Fusagasugá	6.6%	15.4%	71.2%	5.5%	1.3%	1029
Girardot	9.0%	16.7%	60.5%	9.7%	4.1%	688



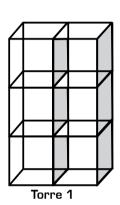
ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.6%	15.0%	63.1%	10.0%	2.2%	2578
Soacha	7.0%	15.3%	70.1%	6.0%	1.6%	4048
Sogamoso	5.6%	15.2%	72.5%	6.2%	0.5%	1119
Soledad	8.6%	14.3%	65.7%	9.5%	1.9%	3865
Sucre	14.6%	16.4%	50.1%	15.6%	3.4%	6080
Tolima	10.9%	15.9%	59.4%	11.6%	2.3%	7517
Tuluá	7.3%	13.1%	72.0%	6.2%	1.5%	1638
Tumaco	15.1%	15.9%	48.4%	13.0%	7.5%	2161
Tunja	6.3%	14.4%	72.9%	5.5%	0.9%	1288
Turbo	15.6%	18.0%	47.2%	14.5%	4.7%	1473
Uribia	14.8%	15.0%	44.9%	17.6%	7.8%	729
Valle del Cauca	8.4%	13.0%	66.6%	9.6%	2.4%	6460
Valledupar	8.9%	13.7%	62.4%	11.4%	3.5%	3519
Vaupés	16.7%	0.0%	33.3%	0.0%	50.0%	6
Vichada	11.8%	12.2%	57.6%	15.8%	2.6%	543
Villavicencio	6.9%	14.6%	69.9%	6.9%	1.7%	4133
Yopal	8.8%	13.8%	66.2%	8.8%	2.4%	1346
Yumbo	8.7%	12.3%	70.7%	6.3%	1.9%	933
Zipaquirá	5.0%	13.5%	73.7%	6.6%	1.3%	987
Colombia	9.0%	14.4%	64.6%	9.3%	2.6%	369410

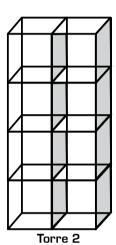
^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 11.

Las torres 1 y 2 se construyeron con cubos como este







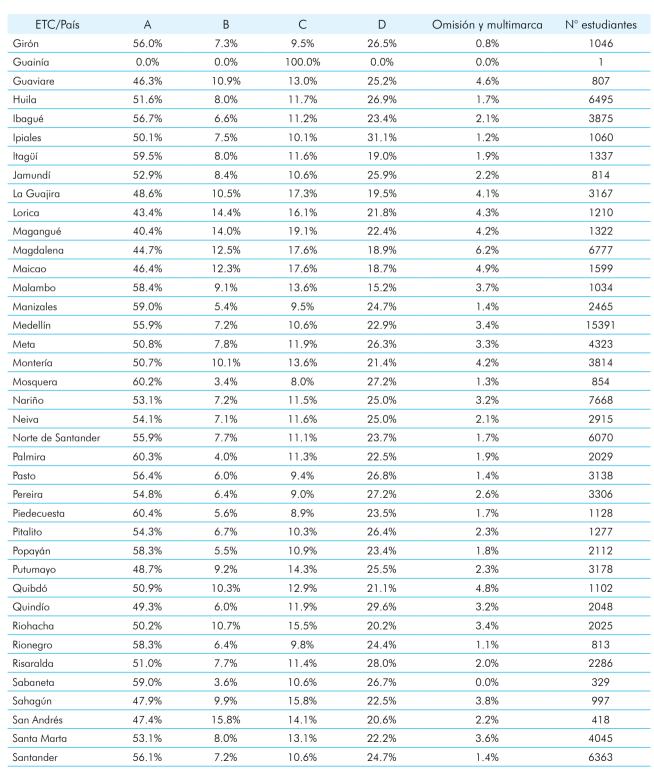
Comparando las dos torres, es correcto afirmar que

- A. la torre 2 ocupa más espacio que la 1.
- B. las dos torres tienen igual tamaño.
- C. la torre 1 ocupa más espacio que la 2.
- D. las dos torres tienen diferente forma.

Competencia	Comunicación, representación y modelación
Componente	Geométrico - métrico
Afirmación	Identificar atributos de objetos y eventos que son susceptibles de ser medidos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	38.3%	14.8%	15.1%	27.3%	4.6%	800
Antioquia	52.9%	8.4%	12.2%	23.5%	3.0%	22994
Apartadó	49.1%	9.7%	13.1%	23.4%	4.8%	1357
Arauca	51.4%	8.7%	12.4%	25.2%	2.4%	2079
Armenia	52.3%	9.5%	11.6%	25.5%	1.1%	1916
Atlántico	48.4%	10.9%	15.8%	20.0%	5.0%	4466
Barrancabermeja	52.8%	6.9%	11.9%	25.3%	3.1%	1795
Barranquilla	53.7%	7.6%	13.9%	21.8%	3.0%	7802
Bello	56.6%	5.5%	11.7%	24.3%	1.8%	2933
Bogotá, D.C.	61.4%	5.0%	8.3%	22.2%	3.2%	47935
Bolívar	39.7%	15.1%	17.9%	21.2%	6.0%	8299
Boyacá	51.7%	8.9%	10.9%	26.7%	1.8%	6891
Bucaramanga	60.3%	5.4%	8.0%	24.5%	1.7%	3829
Buenaventura	54.2%	8.1%	13.0%	21.7%	3.0%	2848
Buga	57.4%	6.0%	10.6%	21.3%	4.7%	822
Caldas	53.9%	5.9%	11.2%	26.7%	2.2%	4507
Cali	58.3%	5.5%	10.7%	22.7%	2.7%	14472
Caquetá	51.7%	10.5%	12.5%	22.9%	2.4%	2765
Cartagena	54.1%	9.1%	13.4%	19.4%	4.1%	8117
Cartago	54.8%	7.5%	9.3%	25.2%	3.2%	810
Casanare	49.1%	9.7%	11.8%	26.4%	3.1%	2226
Cauca	52.2%	9.7%	12.0%	22.9%	3.3%	9633
Cesar	52.8%	8.4%	14.1%	21.5%	3.3%	6653
Chocó	42.7%	13.6%	17.4%	20.6%	5.7%	3467
Chía	64.8%	4.6%	8.3%	21.1%	1.1%	961
Ciénaga	53.4%	7.3%	14.8%	18.5%	6.0%	1145
Cundinamarca	57.9%	6.5%	9.5%	24.2%	1.9%	11913
Córdoba	45.5%	12.2%	16.2%	22.0%	4.0%	9883
Cúcuta	55.7%	6.6%	11.5%	24.6%	1.7%	5554
Dosquebradas	56.7%	6.0%	9.0%	24.9%	3.4%	1195
Duitama	63.6%	6.4%	7.8%	22.0%	0.3%	1002
Envigado	67.8%	5.6%	8.8%	16.6%	1.2%	989
Facatativá	59.2%	4.2%	8.2%	23.8%	4.5%	1082
Florencia	46.8%	8.8%	14.4%	27.2%	2.9%	1576
Floridablanca	61.7%	4.9%	8.2%	23.9%	1.4%	1916
Fusagasugá	58.9%	5.5%	10.8%	22.7%	2.0%	1029
Girardot	50.4%	7.8%	11.2%	26.6%	3.9%	688

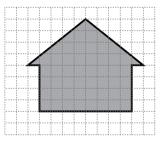


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	53.6%	8.5%	13.8%	21.3%	2.7%	2578
Soacha	58.0%	6.3%	9.2%	24.5%	2.0%	4048
Sogamoso	61.3%	6.9%	8.5%	22.4%	0.9%	1119
Soledad	54.5%	6.9%	13.4%	22.6%	2.7%	3865
Sucre	44.7%	13.5%	17.0%	20.8%	3.9%	6080
Tolima	51.6%	9.1%	11.9%	24.9%	2.5%	7517
Tuluá	57.8%	5.7%	10.4%	24.3%	1.8%	1638
Tumaco	40.4%	13.4%	16.8%	20.4%	9.0%	2161
Tunja	58.9%	6.4%	9.0%	24.7%	1.0%	1288
Turbo	41.2%	12.3%	17.9%	23.8%	4.9%	1473
Uribia	37.9%	17.7%	21.9%	14.8%	7.7%	729
Valle del Cauca	52.0%	7.4%	11.9%	25.8%	3.0%	6460
Valledupar	54.3%	6.7%	12.5%	22.5%	4.0%	3519
Vaupés	16.7%	16.7%	16.7%	0.0%	50.0%	6
Vichada	41.6%	11.8%	13.1%	29.1%	4.4%	543
Villavicencio	58.4%	6.1%	9.0%	24.5%	2.0%	4133
Yopal	53.6%	8.1%	7.7%	27.5%	3.1%	1346
Yumbo	52.4%	8.1%	12.1%	24.5%	2.8%	933
Zipaquirá	60.9%	6.0%	7.1%	24.4%	1.6%	987
Colombia	53.9%	7.9%	11.8%	23.2%	3.1%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

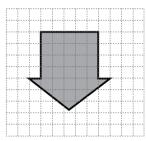
• Pregunta 12.

Esta es una flecha que indica hacia arriba.

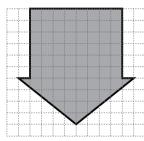


¿Cómo se verá esta flecha si ahora indica hacia abajo?

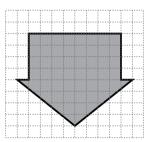
A.



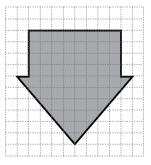
В.



C.



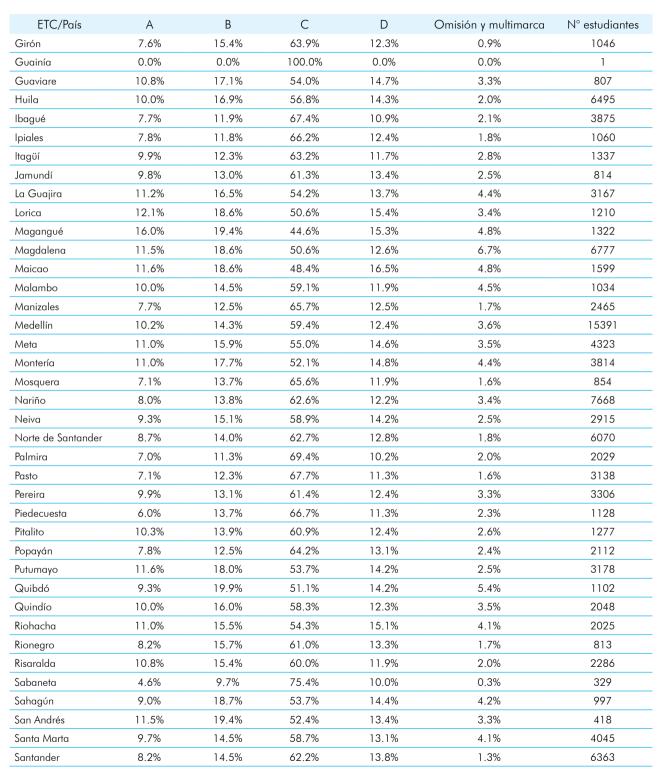
D.



Competencia	Comunicación, representación y modelación
Componente	Geométrico - métrico
Afirmación	Describir características de figuras que son semejantes o congruentes entre sí.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	С

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	12.3%	16.3%	48.4%	17.8%	5.4%	800
Antioquia	10.9%	16.6%	56.0%	13.4%	3.1%	22994
Apartadó	11.9%	17.3%	52.2%	13.3%	5.2%	1357
Arauca	10.1%	16.5%	56.8%	14.2%	2.5%	2079
Armenia	10.0%	14.7%	61.8%	11.9%	1.6%	1916
Atlántico	11.0%	15.4%	55.7%	12.3%	5.5%	4466
Barrancabermeja	8.1%	12.3%	63.7%	13.4%	2.5%	1795
Barranquilla	9.2%	14.2%	61.4%	11.9%	3.4%	7802
Bello	8.7%	14.1%	63.5%	11.9%	1.8%	2933
Bogotá, D.C.	6.1%	11.7%	66.8%	12.1%	3.3%	47935
Bolívar	13.5%	20.1%	44.1%	16.0%	6.4%	8299
Boyacá	9.7%	17.8%	55.0%	15.5%	2.0%	6891
Bucaramanga	6.1%	10.9%	69.9%	11.0%	2.1%	3829
Buenaventura	9.7%	14.8%	59.6%	12.7%	3.2%	2848
Buga	6.3%	12.7%	65.6%	11.4%	4.0%	822
Caldas	9.5%	14.2%	61.6%	12.3%	2.4%	4507
Cali	7.9%	11.2%	67.1%	10.9%	2.9%	14472
Caquetá	12.4%	15.8%	56.5%	13.2%	2.1%	2765
Cartagena	8.7%	13.0%	62.3%	11.6%	4.5%	8117
Cartago	6.5%	13.1%	62.7%	14.3%	3.3%	810
Casanare	12.5%	17.7%	51.0%	15.2%	3.5%	2226
Саиса	9.6%	15.9%	58.1%	12.9%	3.5%	9633
Cesar	11.2%	16.4%	55.4%	13.5%	3.5%	6653
Chocó	12.7%	19.5%	47.8%	14.1%	5.9%	3467
Chía	5.0%	11.1%	70.0%	12.1%	1.8%	961
Ciénaga	8.6%	13.0%	60.7%	11.4%	6.2%	1145
Cundinamarca	7.6%	14.2%	62.6%	13.4%	2.1%	11913
Córdoba	12.4%	19.0%	49.4%	15.0%	4.2%	9883
Cúcuta	8.4%	13.9%	62.7%	13.1%	2.0%	5554
Dosquebradas	7.6%	12.0%	65.9%	11.4%	3.1%	1195
Duitama	5.6%	14.2%	67.5%	12.2%	0.6%	1002
Envigado	7.2%	10.7%	69.9%	11.1%	1.1%	989
Facatativá	6.1%	13.6%	65.2%	11.0%	4.2%	1082
Florencia	12.5%	17.2%	52.9%	14.0%	3.4%	1576
Floridablanca	4.9%	10.8%	70.7%	11.9%	1.8%	1916
Fusagasugá	7.4%	13.1%	65.2%	12.7%	1.6%	1029
Girardot	11.2%	15.4%	56.7%	13.1%	3.6%	688

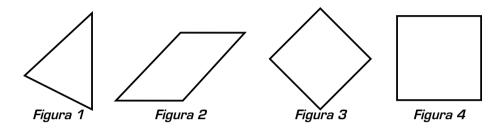


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	10.0%	15.0%	58.8%	13.0%	3.2%	2578
Soacha	7.0%	13.0%	65.2%	12.6%	2.1%	4048
Sogamoso	6.0%	14.3%	66.2%	12.6%	0.9%	1119
Soledad	9.9%	12.2%	63.6%	11.8%	2.4%	3865
Sucre	12.7%	19.6%	48.1%	15.4%	4.1%	6080
Tolima	9.9%	16.4%	55.8%	14.7%	3.1%	7517
Tuluá	7.8%	11.7%	67.1%	11.6%	1.9%	1638
Tumaco	11.2%	17.4%	50.1%	12.4%	8.9%	2161
Tunja	5.7%	13.4%	68.7%	10.9%	1.2%	1288
Turbo	13.6%	19.6%	47.5%	13.8%	5.6%	1473
Uribia	12.9%	19.1%	44.3%	15.0%	8.8%	729
Valle del Cauca	9.3%	14.8%	60.3%	12.6%	3.0%	6460
Valledupar	9.8%	14.2%	60.4%	11.4%	4.2%	3519
Vaupés	0.0%	16.7%	0.0%	16.7%	66.7%	6
Vichada	11.6%	14.7%	49.2%	19.7%	4.8%	543
Villavicencio	7.6%	12.8%	65.1%	12.8%	1.7%	4133
Yopal	10.0%	12.0%	60.8%	13.4%	3.6%	1346
Yumbo	9.8%	14.6%	61.3%	11.8%	2.6%	933
Zipaquirá	5.2%	14.7%	67.7%	10.6%	1.8%	987
Colombia	9.2%	14.7%	59.8%	13.0%	3.3%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 13.

¿Cuál figura NO tiene el mismo número de lados que las demás?

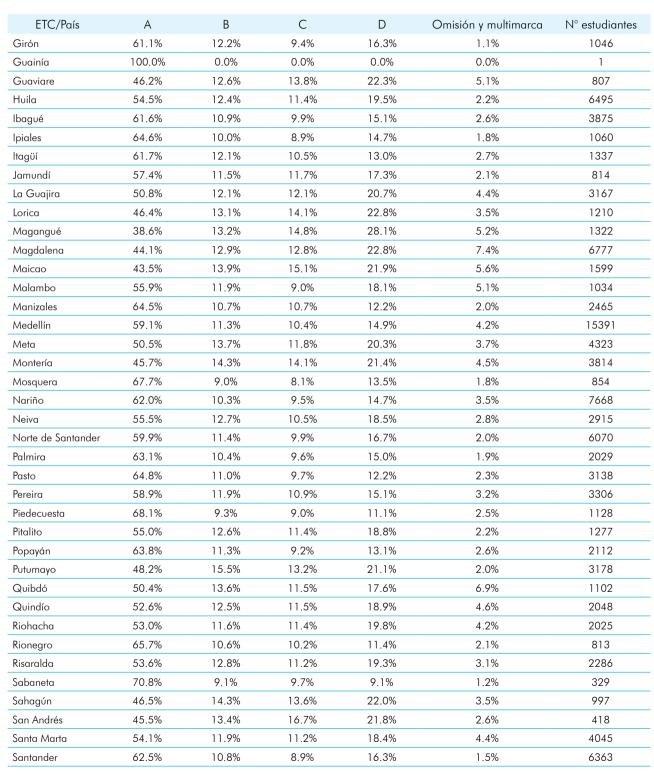


- A. La 1.
- B. La 2.
- C. La 3.
- D. La 4.

Competencia	Razonamiento y argumentación					
Componente	Geométrico - métrico					
Afirmación	Establecer diferencias y similitudes entre objetos bidimensionales y tridimensionales de acuerdo con sus propiedades.					
Nivel de desempeño	Satisfactorio					
Respuesta Correcta	A					

• Resultados a nivel de Entidad Territorial certificada (ETC)

Amozonas 43.9% 15.3% 13.3% 22.6% 5.0% 800 Antioquia 53.0% 12.6% 11.4% 19.3% 3.6% 22994 Aportadó 48.3% 14.9% 113.7% 17.9% 5.2% 1357 Arouca 56.1% 11.9% 11.5% 18.0% 2.5% 2079 Armenia 57.2% 14.6% 11.3% 15.1% 1.8% 1916 Aldantico 52.2% 11.4% 11.7% 19.2% 5.4% 4466 Barrancabermaja 53.8% 15.3% 11.0% 16.6% 3.2% 1795 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Begoria 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Begoria 7.6% 9.6% 7.9% 11.5% 3.5% 47935 Belva 61.8% 11.1% 11.2% 18.5% 2.3% 6991 Boycach 15.5	ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Aparadó 48.3% 14.9% 13.7% 17.9% 5.2% 1357 Arauca 56.1% 11.9% 11.5% 18.0% 2.5% 2079 Armenia 57.2% 14.6% 11.3% 15.1% 1.8% 1916 Arlóntico 52.2% 11.4% 11.7% 19.2% 5.4% 4466 Barranquilla 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Begotó, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolivar 37.6% 14.3% 14.5% 26.6% 7.0% 2829 Boyacô 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3.8% 2829 Buera coramanga 68.7% 9.7% 17.7% 12.1% 1.8% 3.5% 2848	Amazonas	43.9%	15.3%	13.3%	22.6%	5.0%	800
Arauca 56.1% 11.9% 11.5% 18.0% 2.5% 2079 Armenia 57.2% 14.6% 11.3% 15.1% 1.8% 1916 Arlidnico 52.2% 11.4% 11.7% 19.2% 5.4% 4466 Barrancabemeja 53.8% 15.3% 11.0% 16.6% 3.2% 1795 Barrancabemeja 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Boglor 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolivar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boycac 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3.5% 2848 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3.5% 2848 <	Antioquia	53.0%	12.6%	11.4%	19.3%	3.6%	22994
Armenia 57.2% 14.6% 11.3% 15.1% 1.8% 1916 Alfantico 52.2% 11.4% 11.7% 19.2% 5.4% 4466 Borrancabermeja 53.8% 15.5% 11.0% 16.6% 3.2% 1795 Barranquilla 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Bogotó, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolívar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaromanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Bucaromanga 63.9% 11.1% 11.9% 19.2% 3.5% 2848 Buga 63.9% 11.1% 11.9% 19.2% 3.5% 2848 Buga 63	Apartadó	48.3%	14.9%	13.7%	17.9%	5.2%	1357
Atlántico 52.2% 11.4% 11.7% 19.2% 5.4% 4466 Barrancabermeja 53.8% 15.3% 11.0% 16.6% 3.2% 1795 Barrancabermeja 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 293 Bogotó, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Boldvar 37.6% 14.3% 14.5% 26.6% 7.0% 3299 Boyacó 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Buenoventura 53.7% 11.1% 11.9% 19.2% 3.5% 2.848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61	Arauca	56.1%	11.9%	11.5%	18.0%	2.5%	2079
Barrancobermeja 53.8% 15.3% 11.0% 16.6% 3.2% 1795 Barranquilla 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Begoté, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolívar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Buenaventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Colidas 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caj 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caj 61.3% <td>Armenia</td> <td>57.2%</td> <td>14.6%</td> <td>11.3%</td> <td>15.1%</td> <td>1.8%</td> <td>1916</td>	Armenia	57.2%	14.6%	11.3%	15.1%	1.8%	1916
Barranquilla 54.2% 12.4% 11.8% 17.8% 3.8% 7802 Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Bogotá, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolivar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Bueanventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagos 55.8%	Atlántico	52.2%	11.4%	11.7%	19.2%	5.4%	4466
Bello 61.8% 11.1% 10.0% 14.9% 2.2% 2933 Bogotó, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolrar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramonga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Bueanventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Coquelé 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartago 55.6% 11.0% 10.6% 21.1% 4.9% 8117 Cartago 55.8% <	Barrancabermeja	53.8%	15.3%	11.0%	16.6%	3.2%	1795
Bogotá, D.C. 67.6% 9.6% 7.9% 11.5% 3.5% 47935 Bolívar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucardmanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Buena cerventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Caldas 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 11.0% 17.7% 4.0% 9633 Casarare 48.8%<	Barranquilla	54.2%	12.4%	11.8%	17.8%	3.8%	7802
Bolivar 37.6% 14.3% 14.5% 26.6% 7.0% 8299 Boyacá 55.3% 12.6% 11.2% 18.5% 2.3% 6891 Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Buenaventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6%	Bello	61.8%	11.1%	10.0%	14.9%	2.2%	2933
Boyacá 55,3% 12,6% 11,2% 18,5% 2,3% 6891 Bucaramanga 68,7% 9,7% 7,7% 12,1% 1.8% 3829 Buenaventura 53,7% 11,7% 11,9% 19,2% 3,5% 2848 Buga 63,9% 10,1% 6,8% 15,2% 4,0% 822 Caldas 60,3% 11,8% 9,9% 15,6% 2,4% 4507 Cali 61,3% 11,0% 10,0% 14,4% 3,3% 14472 Caquetá 53,7% 12,0% 10,6% 21,1% 2,5% 2765 Cartagena 55,6% 11,0% 11,0% 17,4% 4,9% 8117 Cartago 55,8% 15,7% 10,9% 14,3% 3,3% 2226 Casaracre 48,8% 14,5% 12,8% 20,6% 3,3% 2226 Cauca 56,9% 11,0% 10,4% 17,7% 4,0% 9633 Cesar 50,6% <t< td=""><td>Bogotá, D.C.</td><td>67.6%</td><td>9.6%</td><td>7.9%</td><td>11.5%</td><td>3.5%</td><td>47935</td></t<>	Bogotá, D.C.	67.6%	9.6%	7.9%	11.5%	3.5%	47935
Bucaramanga 68.7% 9.7% 7.7% 12.1% 1.8% 3829 Buenaventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 10.9% 14.3% 3.3% 2226 Cauca 56.9%	Bolívar	37.6%	14.3%	14.5%	26.6%	7.0%	8299
Buenaventura 53.7% 11.7% 11.9% 19.2% 3.5% 2848 Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartagena 55.6% 11.0% 10.9% 14.3% 3.3% 810 Cartagena 55.6% 11.0% 10.9% 14.3% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6%	Boyacá	55.3%	12.6%	11.2%	18.5%	2.3%	6891
Buga 63.9% 10.1% 6.8% 15.2% 4.0% 822 Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartago 55.8% 15.7% 10.9% 14.3% 3.3% 810 Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6%	Bucaramanga	68.7%	9.7%	7.7%	12.1%	1.8%	3829
Caldas 60.3% 11.8% 9.9% 15.6% 2.4% 4507 Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartago 55.8% 15.7% 10.9% 14.3% 3.3% 810 Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3%<	Buenaventura	53.7%	11.7%	11.9%	19.2%	3.5%	2848
Cali 61.3% 11.0% 10.0% 14.4% 3.3% 14472 Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartage 55.6% 15.7% 10.9% 14.3% 3.3% 810 Casarare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cudianamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4	Buga	63.9%	10.1%	6.8%	15.2%	4.0%	822
Caquetá 53.7% 12.0% 10.6% 21.1% 2.5% 2765 Cartagena 55.6% 11.0% 11.0% 17.4% 4.9% 8117 Cartago 55.8% 15.7% 10.9% 14.3% 3.3% 810 Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.	Caldas	60.3%	11.8%	9.9%	15.6%	2.4%	4507
Cartagena 55.6% 11.0% 17.4% 4.9% 8117 Cartago 55.8% 15.7% 10.9% 14.3% 3.3% 810 Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cudinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% <td< td=""><td>Cali</td><td>61.3%</td><td>11.0%</td><td>10.0%</td><td>14.4%</td><td>3.3%</td><td>14472</td></td<>	Cali	61.3%	11.0%	10.0%	14.4%	3.3%	14472
Cartago 55.8% 15.7% 10.9% 14.3% 3.3% 810 Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Envigado 74.8% <th< td=""><td>Caquetá</td><td>53.7%</td><td>12.0%</td><td>10.6%</td><td>21.1%</td><td>2.5%</td><td>2765</td></th<>	Caquetá	53.7%	12.0%	10.6%	21.1%	2.5%	2765
Casanare 48.8% 14.5% 12.8% 20.6% 3.3% 2226 Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8%	Cartagena	55.6%	11.0%	11.0%	17.4%	4.9%	8117
Cauca 56.9% 11.0% 10.4% 17.7% 4.0% 9633 Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Florencia 48.4% 13.	Cartago	55.8%	15.7%	10.9%	14.3%	3.3%	810
Cesar 50.6% 12.5% 11.5% 21.5% 3.8% 6653 Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% <td< td=""><td>Casanare</td><td>48.8%</td><td>14.5%</td><td>12.8%</td><td>20.6%</td><td>3.3%</td><td>2226</td></td<>	Casanare	48.8%	14.5%	12.8%	20.6%	3.3%	2226
Chocó 41.5% 13.6% 12.8% 25.2% 6.9% 3467 Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8%	Cauca	56.9%	11.0%	10.4%	17.7%	4.0%	9633
Chía 71.3% 8.8% 6.6% 11.1% 2.2% 961 Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4%	Cesar	50.6%	12.5%	11.5%	21.5%	3.8%	6653
Ciénaga 58.4% 8.6% 8.6% 17.7% 6.6% 1145 Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Faccatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Chocó	41.5%	13.6%	12.8%	25.2%	6.9%	3467
Cundinamarca 63.9% 10.3% 9.3% 14.1% 2.5% 11913 Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cócuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Chía	71.3%	8.8%	6.6%	11.1%	2.2%	961
Córdoba 43.5% 13.4% 13.8% 24.5% 4.8% 9883 Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Ciénaga	58.4%	8.6%	8.6%	17.7%	6.6%	1145
Cúcuta 57.4% 13.1% 11.0% 16.5% 2.0% 5554 Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Faccatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Cundinamarca	63.9%	10.3%	9.3%	14.1%	2.5%	11913
Dosquebradas 58.7% 11.0% 10.9% 15.5% 4.0% 1195 Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Córdoba	43.5%	13.4%	13.8%	24.5%	4.8%	9883
Duitama 71.5% 10.9% 7.4% 9.6% 0.7% 1002 Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Cúcuta	57.4%	13.1%	11.0%	16.5%	2.0%	5554
Envigado 74.8% 8.1% 6.2% 9.5% 1.4% 989 Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Dosquebradas	58.7%	11.0%	10.9%	15.5%	4.0%	1195
Facatativá 65.6% 10.3% 7.8% 11.6% 4.7% 1082 Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Duitama	71.5%	10.9%	7.4%	9.6%	0.7%	1002
Florencia 48.4% 13.8% 13.0% 21.4% 3.4% 1576 Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Envigado	74.8%	8.1%	6.2%	9.5%	1.4%	989
Floridablanca 68.8% 9.9% 7.7% 11.5% 2.0% 1916 Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Facatativá	65.6%	10.3%	7.8%	11.6%	4.7%	1082
Fusagasugá 62.4% 11.4% 8.6% 15.3% 2.3% 1029	Florencia	48.4%	13.8%	13.0%	21.4%	3.4%	1576
	Floridablanca	68.8%	9.9%	7.7%	11.5%	2.0%	1916
Girardot 51.6% 10.6% 14.0% 19.5% 4.4% 688	Fusagasugá	62.4%	11.4%	8.6%	15.3%	2.3%	1029
	Girardot	51.6%	10.6%	14.0%	19.5%	4.4%	688

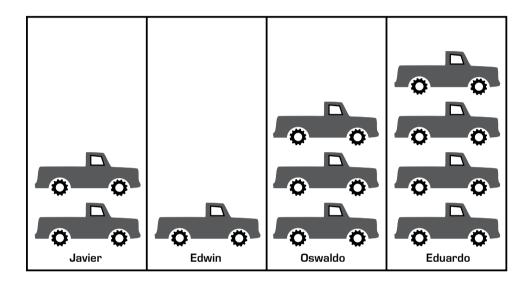


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	54.2%	12.3%	11.4%	18.6%	3.5%	2578
Soacha	64.7%	10.1%	9.7%	13.5%	2.0%	4048
Sogamoso	67.4%	10.4%	8.8%	12.3%	1.2%	1119
Soledad	57.2%	11.1%	10.7%	18.4%	2.6%	3865
Sucre	42.8%	13.8%	13.2%	25.4%	4.8%	6080
Tolima	52.5%	11.5%	11.9%	21.0%	3.0%	7517
Tuluá	61.7%	10.7%	10.0%	15.8%	2.0%	1638
Tumaco	41.4%	12.8%	14.1%	22.6%	9.1%	2161
Tunja	67.5%	10.6%	9.2%	11.3%	1.5%	1288
Turbo	40.7%	14.5%	13.4%	25.2%	6.3%	1473
Uribia	36.9%	17.1%	14.7%	21.7%	9.6%	729
Valle del Cauca	54.7%	11.8%	11.0%	19.1%	3.4%	6460
Valledupar	53.9%	11.1%	11.3%	19.0%	4.7%	3519
Vaupés	0.0%	0.0%	16.7%	33.3%	50.0%	6
Vichada	48.6%	14.5%	10.5%	22.1%	4.2%	543
Villavicencio	61.2%	11.9%	10.2%	14.4%	2.3%	4133
Yopal	55.9%	12.5%	10.6%	17.6%	3.3%	1346
Yumbo	53.8%	11.8%	12.6%	18.9%	2.9%	933
Zipaquirá	71.0%	9.4%	8.0%	9.9%	1.6%	987
Colombia	56.9%	11.7%	10.7%	17.2%	3.6%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 14.

Observa la cantidad de carritos que tienen cuatro niños.





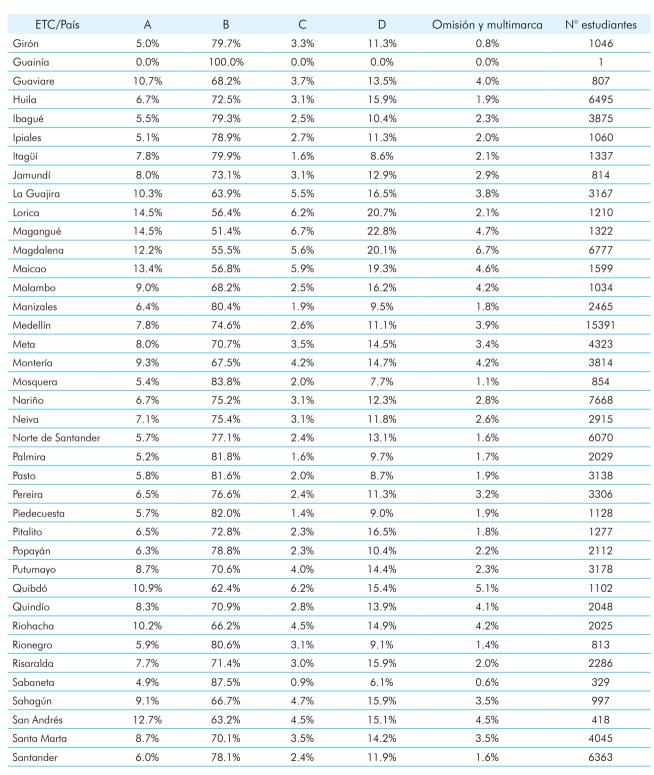
¿Quién tiene menos carritos?

- A. Javier.
- B. Edwin.
- C. Oswaldo.
- D. Eduardo.

Competencia	Comunicación, representación y modelación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Mínimo
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	9.8%	62.3%	5.5%	17.4%	5.1%	800
Antioquia	8.6%	71.0%	3.4%	13.9%	3.1%	22994
Apartadó	11.9%	65.1%	4.7%	13.9%	4.3%	1357
Arauca	7.2%	72.4%	3.3%	14.9%	2.2%	2079
Armenia	7.9%	76.5%	2.5%	11.5%	1.7%	1916
Atlántico	10.6%	63.9%	5.0%	15.4%	5.2%	4466
Barrancabermeja	7.7%	75.4%	3.1%	10.9%	2.8%	1795
Barranquilla	7.7%	72.1%	3.0%	13.8%	3.4%	7802
Bello	6.2%	78.1%	2.3%	11.1%	2.2%	2933
Bogotá, D.C.	4.9%	81.8%	1.8%	8.0%	3.5%	47935
Bolívar	14.0%	53.0%	7.1%	20.2%	5.7%	8299
Boyacá	6.5%	74.5%	3.7%	13.5%	1.8%	6891
Bucaramanga	5.1%	81.7%	1.8%	9.4%	1.9%	3829
Buenaventura	8.2%	69.7%	3.7%	15.5%	2.9%	2848
Buga	6.8%	76.8%	1.7%	10.8%	3.9%	822
Caldas	7.0%	73.6%	3.0%	14.2%	2.2%	4507
Cali	5.7%	79.2%	2.3%	9.9%	2.9%	14472
Caquetá	9.2%	69.2%	3.5%	16.2%	1.9%	2765
Cartagena	8.3%	70.1%	3.8%	13.9%	3.9%	8117
Cartago	7.0%	75.4%	2.7%	11.4%	3.5%	810
Casanare	7.0%	72.9%	2.5%	14.7%	2.9%	2226
Cauca	8.3%	69.0%	3.7%	15.5%	3.4%	9633
Cesar	8.7%	67.2%	3.9%	16.9%	3.3%	6653
Chocó	14.5%	54.4%	5.7%	20.1%	5.3%	3467
Chía	5.2%	84.2%	1.4%	7.7%	1.6%	961
Ciénaga	8.6%	68.9%	3.7%	12.9%	5.9%	1145
Cundinamarca	5.6%	78.3%	2.4%	11.7%	2.0%	11913
Córdoba	11.4%	60.2%	5.5%	19.1%	3.9%	9883
Cúcuta	5.7%	78.2%	2.5%	11.8%	1.7%	5554
Dosquebradas	4.8%	79.9%	2.7%	9.2%	3.4%	1195
Duitama	4.6%	88.2%	1.9%	4.9%	0.4%	1002
Envigado	5.9%	83.6%	1.4%	7.3%	1.8%	989
Facatativá	5.8%	79.9%	2.1%	8.1%	4.1%	1082
Florencia	7.7%	70.4%	3.7%	14.5%	3.7%	1576
Floridablanca	4.6%	83.6%	2.0%	7.8%	2.0%	1916
Fusagasugá	6.3%	78.6%	2.8%	10.8%	1.5%	1029
Girardot	7.4%	70.2%	2.3%	16.3%	3.8%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.0%	72.1%	3.7%	12.9%	3.3%	2578
Soacha	6.1%	80.6%	2.1%	9.2%	2.0%	4048
Sogamoso	5.5%	83.5%	1.9%	8.3%	0.9%	1119
Soledad	7.4%	74.2%	2.8%	13.1%	2.5%	3865
Sucre	11.7%	58.4%	5.9%	20.2%	3.9%	6080
Tolima	7.9%	68.8%	4.0%	16.7%	2.6%	7517
Tuluá	6.0%	78.1%	1.9%	12.5%	1.5%	1638
Tumaco	13.7%	53.2%	5.4%	19.3%	8.4%	2161
Tunja	6.5%	82.5%	1.5%	8.2%	1.3%	1288
Turbo	13.7%	57.8%	4.9%	18.7%	5.0%	1473
Uribia	15.9%	49.1%	8.1%	19.6%	7.3%	729
Valle del Cauca	7.3%	72.5%	3.5%	13.7%	2.9%	6460
Valledupar	7.5%	71.5%	2.9%	14.0%	4.1%	3519
Vaupés	0.0%	33.3%	16.7%	0.0%	50.0%	6
Vichada	9.2%	61.3%	3.5%	22.3%	3.7%	543
Villavicencio	6.1%	80.0%	2.3%	9.8%	1.8%	4133
Yopal	7.0%	74.3%	2.1%	13.2%	3.5%	1346
Yumbo	8.5%	71.0%	3.8%	14.1%	2.7%	933
Zipaquirá	4.8%	82.7%	1.4%	9.2%	1.9%	987
Colombia	7.6%	73.0%	3.2%	13.0%	3.2%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 15.

Nicolás tiene estos cuadernos en su maleta.

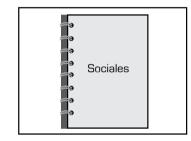




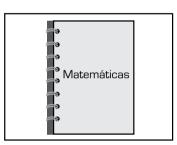


Él sacó un cuaderno sin mirar. ¿Cuál NO puede ser el cuaderno que sacó?

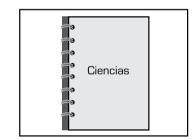
Α.



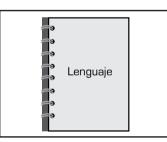
B.



C.



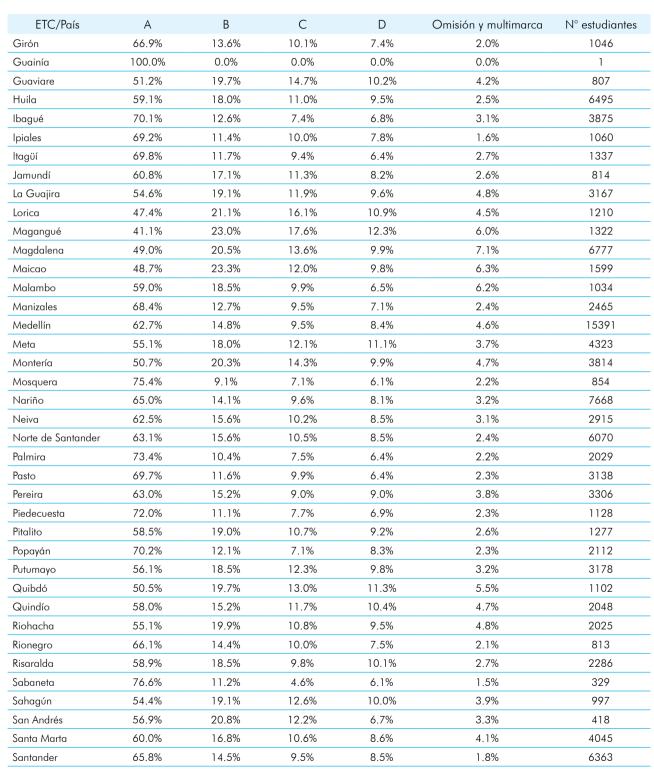
D.



Competencia	Razonamiento y argumentación
Componente	Aleatorio
Afirmación	Establecer conjeturas acerca de la posibilidad de ocurrencia de eventos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	52.3%	19.8%	12.4%	10.6%	5.0%	800
Antioquia	56.7%	18.5%	10.7%	10.3%	3.8%	22994
Apartadó	51.7%	18.2%	12.7%	11.7%	5.7%	1357
Arauca	58.2%	18.2%	11.6%	9.4%	2.6%	2079
Armenia	62.3%	16.3%	10.4%	8.4%	2.6%	1916
Atlántico	54.4%	17.9%	12.4%	8.7%	6.6%	4466
Barrancabermeja	62.5%	14.9%	10.4%	8.6%	3.7%	1795
Barranquilla	61.9%	16.4%	10.5%	7.1%	4.1%	7802
Bello	68.0%	14.2%	7.7%	6.9%	3.2%	2933
Bogotá, D.C.	72.9%	10.1%	6.7%	6.2%	4.0%	47935
Bolívar	41.1%	24.0%	15.9%	12.0%	7.0%	8299
Boyacá	54.6%	18.3%	14.4%	10.3%	2.5%	6891
Bucaramanga	70.9%	12.3%	7.3%	7.1%	2.4%	3829
Buenaventura	58.6%	18.7%	10.3%	8.8%	3.7%	2848
Buga	65.1%	13.7%	10.1%	6.6%	4.5%	822
Caldas	61.7%	16.1%	10.4%	9.3%	2.5%	4507
Cali	70.5%	12.0%	7.6%	6.5%	3.4%	14472
Caquetá	56.9%	19.9%	12.2%	8.5%	2.5%	2765
Cartagena	61.8%	16.2%	9.8%	7.3%	4.9%	8117
Cartago	66.5%	13.0%	9.6%	6.8%	4.1%	810
Casanare	54.4%	19.6%	11.2%	10.9%	3.9%	2226
Саиса	60.5%	16.4%	10.3%	9.3%	3.5%	9633
Cesar	56.7%	19.1%	11.2%	9.3%	3.8%	6653
Chocó	45.6%	21.9%	14.1%	11.9%	6.4%	3467
Chía	76.5%	9.2%	5.4%	6.9%	2.1%	961
Ciénaga	61.6%	14.1%	10.2%	7.3%	6.7%	1145
Cundinamarca	68.1%	12.8%	8.6%	8.1%	2.4%	11913
Córdoba	47.2%	21.5%	14.9%	11.5%	5.0%	9883
Cúcuta	67.0%	14.0%	10.0%	6.9%	2.2%	5554
Dosquebradas	70.0%	11.8%	8.2%	6.3%	3.8%	1195
Duitama	74.7%	11.4%	8.4%	4.9%	0.7%	1002
Envigado	81.8%	7.3%	4.0%	5.0%	1.9%	989
Facatativá	70.1%	12.7%	7.4%	5.3%	4.5%	1082
Florencia	55.6%	17.5%	12.2%	10.3%	4.4%	1576
Floridablanca	72.8%	9.8%	8.1%	7.1%	2.2%	1916
Fusagasugá	67.5%	13.9%	9.2%	6.8%	2.5%	1029
Girardot	62.6%	17.4%	8.7%	7.0%	4.2%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	61.0%	14.8%	11.6%	8.7%	3.8%	2578
Soacha	70.1%	12.2%	8.2%	7.5%	2.1%	4048
Sogamoso	69.6%	11.5%	9.4%	8.0%	1.5%	1119
Soledad	63.6%	16.7%	9.9%	6.9%	2.8%	3865
Sucre	47.2%	22.3%	14.4%	11.3%	4.8%	6080
Tolima	57.0%	19.3%	10.5%	9.8%	3.5%	7517
Tuluá	66.9%	15.4%	9.6%	5.6%	2.4%	1638
Tumaco	46.6%	22.7%	12.2%	9.2%	9.3%	2161
Tunja	72.7%	10.2%	9.5%	5.6%	1.9%	1288
Turbo	44.9%	22.9%	13.3%	12.3%	6.7%	1473
Uribia	42.9%	23.9%	15.8%	7.7%	9.7%	729
Valle del Cauca	61.6%	15.4%	10.5%	9.0%	3.5%	6460
Valledupar	62.3%	15.5%	10.0%	7.5%	4.7%	3519
Vaupés	33.3%	16.7%	0.0%	0.0%	50.0%	6
Vichada	52.7%	23.9%	9.8%	8.5%	5.2%	543
Villavicencio	68.9%	14.0%	7.8%	7.0%	2.3%	4133
Yopal	59.2%	17.5%	9.2%	9.3%	4.8%	1346
Yumbo	56.9%	18.0%	12.3%	8.5%	4.3%	933
Zipaquirá	75.2%	9.2%	6.5%	6.6%	2.5%	987
Colombia	61.8%	15.7%	10.1%	8.5%	3.8%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 16.

Diez niños de un grupo votaron por el color que querían para el uniforme de su equipo de atletismo.

El color más votado será el de la camiseta y el segundo más votado, el de la pantaloneta.

Estos fueron los resultados:

Azul, rojo, negro, azul, verde, azul, gris, blanco, blanco, amarillo.

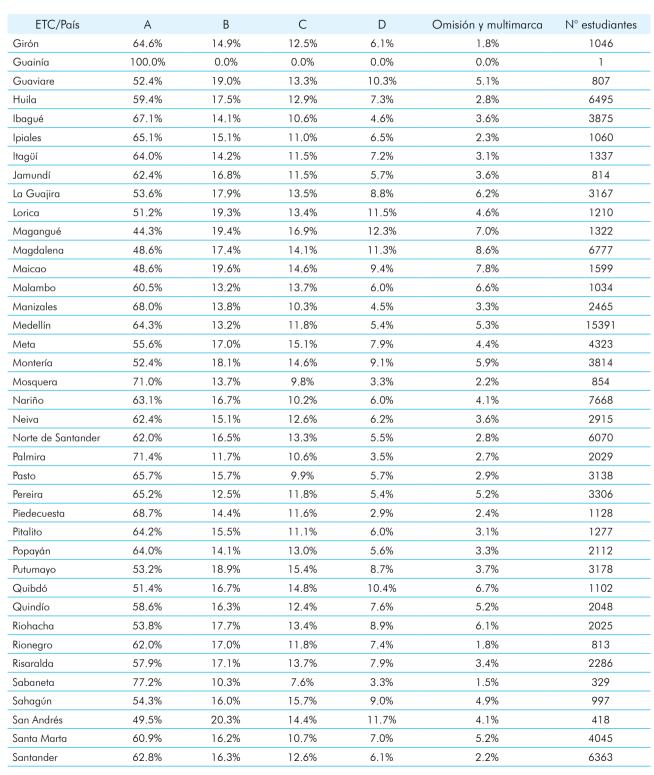
Los colores de la camiseta y la pantaloneta deben ser

- A. azul y blanco.
- B. azul y rojo.
- C. blanco y negro.
- D. gris y amarillo.

Competencia	Planteamiento y resolución de problemas
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	47.9%	17.1%	17.5%	11.3%	6.3%	800
Antioquia	58.9%	16.5%	12.7%	7.3%	4.6%	22994
Apartadó	56.0%	15.6%	13.1%	8.8%	6.5%	1357
Arauca	60.7%	16.5%	11.4%	8.3%	3.3%	2079
Armenia	60.0%	17.2%	13.0%	6.4%	3.3%	1916
Atlántico	53.7%	16.7%	13.2%	9.0%	7.4%	4466
Barrancabermeja	62.1%	15.1%	12.0%	5.7%	5.1%	1795
Barranquilla	62.5%	15.3%	11.0%	6.2%	5.1%	7802
Bello	67.4%	13.2%	10.7%	4.8%	3.9%	2933
Bogotá, D.C.	70.3%	12.8%	8.6%	3.8%	4.5%	47935
Bolívar	43.0%	19.6%	16.6%	12.7%	8.2%	8299
Boyacá	53.2%	20.4%	14.9%	8.6%	3.0%	6891
Bucaramanga	70.1%	13.6%	9.6%	4.0%	2.7%	3829
Buenaventura	64.6%	14.1%	10.3%	6.7%	4.2%	2848
Buga	69.1%	12.7%	10.2%	3.4%	4.6%	822
Caldas	60.5%	14.8%	14.1%	7.7%	2.9%	4507
Cali	68.9%	12.7%	10.3%	4.2%	3.8%	14472
Caquetá	59.5%	16.0%	12.9%	8.6%	2.9%	2765
Cartagena	61.9%	14.5%	11.0%	7.1%	5.5%	8117
Cartago	66.2%	12.7%	11.5%	4.9%	4.7%	810
Casanare	52.6%	19.2%	15.6%	8.3%	4.3%	2226
Cauca	58.8%	17.0%	11.8%	7.8%	4.6%	9633
Cesar	57.6%	17.3%	12.1%	8.4%	4.7%	6653
Chocó	46.7%	16.9%	15.9%	12.3%	8.2%	3467
Chía	72.9%	10.9%	9.3%	3.6%	3.2%	961
Ciénaga	64.3%	12.2%	9.5%	6.4%	7.6%	1145
Cundinamarca	64.0%	15.1%	12.2%	5.7%	3.0%	11913
Córdoba	48.2%	19.7%	15.3%	11.2%	5.7%	9883
Cúcuta	63.1%	16.1%	12.9%	5.1%	2.7%	5554
Dosquebradas	66.4%	13.0%	10.5%	4.9%	5.3%	1195
Duitama	74.6%	11.6%	8.1%	5.1%	0.7%	1002
Envigado	78.0%	9.0%	7.1%	3.3%	2.6%	989
Facatativá	67.7%	13.2%	9.7%	4.4%	5.0%	1082
Florencia	53.6%	19.6%	14.8%	7.0%	4.9%	1576
Floridablanca	70.6%	14.3%	8.5%	4.0%	2.6%	1916
Fusagasugá	67.5%	11.7%	13.2%	5.0%	2.6%	1029
Girardot	60.0%	12.8%	15.4%	6.3%	5.5%	688

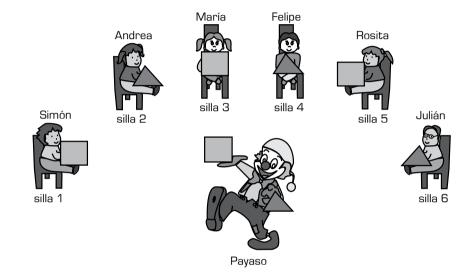


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	58.1%	16.4%	13.2%	7.7%	4.5%	2578
Soacha	68.1%	13.8%	9.9%	5.2%	3.0%	4048
Sogamoso	65.3%	15.4%	13.0%	4.6%	1.8%	1119
Soledad	65.4%	15.0%	10.7%	6.0%	3.0%	3865
Sucre	46.9%	20.1%	15.2%	11.8%	5.9%	6080
Tolima	56.6%	16.8%	14.0%	8.7%	3.9%	7517
Tuluá	67.9%	13.9%	10.3%	4.9%	2.9%	1638
Tumaco	47.9%	17.5%	13.4%	10.6%	10.6%	2161
Tunja	68.6%	14.2%	10.5%	4.5%	2.2%	1288
Turbo	47.1%	17.1%	16.4%	12.4%	6.9%	1473
Uribia	41.2%	19.6%	17.8%	12.6%	8.8%	729
Valle del Cauca	60.5%	16.4%	12.7%	6.3%	4.0%	6460
Valledupar	60.4%	15.9%	12.6%	6.2%	5.0%	3519
Vaupés	33.3%	16.7%	0.0%	0.0%	50.0%	6
Vichada	50.1%	16.4%	16.9%	11.2%	5.3%	543
Villavicencio	67.2%	14.3%	11.3%	4.6%	2.6%	4133
Yopal	60.0%	14.7%	12.8%	7.3%	5.3%	1346
Yumbo	58.1%	18.4%	11.9%	6.6%	4.9%	933
Zipaquirá	72.0%	12.3%	8.9%	4.3%	2.5%	987
Colombia	61.1%	15.6%	12.0%	6.8%	4.5%	369410

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 17.

En una fiesta, el payaso le entregó una figura a cada invitado para realizar una actividad.



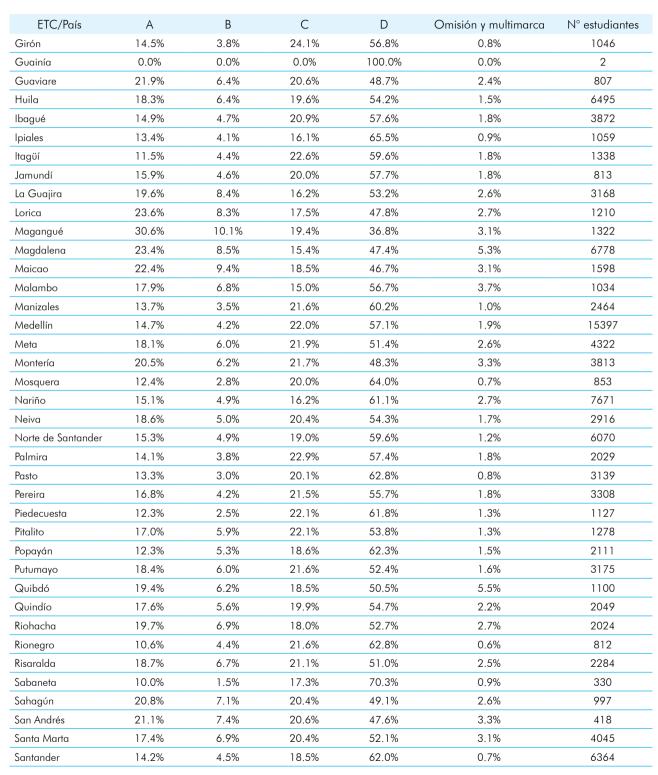
¿Quiénes tienen cuadrados?

- A. Solamente las niñas.
- B. Solamente los niños.
- C. Los que están sentados en sillas pares.
- D. Los que están sentados en sillas impares.

Competencia	Razonamiento y argumentación					
Componente	Numérico - variacional					
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos.					
Nivel de desempeño	Satisfactorio					
Respuesta Correcta	D					

• Resultados a nivel de Entidad Territorial certificada (ETC)

Amazonas 22.9% 7.1% 15.9% 51.6% 2.5% 800 Antioquia 17.6% 6.1% 19.1% 55.0% 2.3% 22998 Aparado 23.4% 7.4% 18.8% 48.5% 2.5% 1358 Arauca 18.2% 5.6% 18.9% 55.4% 2.0% 2079 Armenia 16.9% 4.5% 22.2% 55.5% 0.8% 1915 Atlónico 20.9% 7.1% 17.9% 50.5% 3.7% 44465 Barranquilla 17.8% 5.1% 21.6% 56.3% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Bogidyn D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucarramonaga 11.5% 3.6% 19.0% 54.9% 3.3% 47936 Bucarramonaga 11.	ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Aportadó 23.4% 7.4% 18.3% 48.5% 2.5% 1358 Arauca 18.2% 5.6% 18.9% 55.4% 2.0% 2079 Armenia 16.9% 4.5% 22.2% 55.5% 0.8% 1915 Alfonica 20.8% 7.1% 17.9% 50.5% 3.7% 4465 Barranquilla 17.9% 4.6% 21.6% 56.3% 2.6% 1796 Balla 13.3% 4.0% 21.6% 52.8% 2.6% 7800 Bella 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Bogotó, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Bucarramanga 11.5% 5.8% 12.6% 56.2% 0.8% 3830 Buenoventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8%	Amazonas	22.9%	7.1%	15.9%	51.6%	2.5%	800
Arauca 18.2% 5.6% 18.9% 55.4% 2.0% 2079 Armenia 16.9% 4.5% 22.2% 55.5% 0.8% 1915 Alfaintico 20.9% 7.1% 17.7% 50.5% 3.7% 4465 Barrancpulla 14.9% 4.6% 21.6% 56.3% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Beglot, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyaca 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buearementura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.1% 4.3% 20.7% 54.9% 3.4% 822 Coldas 17.0%	Antioquia	17.6%	6.1%	19.1%	55.0%	2.3%	22998
Armenia 16.9% 4.5% 22.2% 55.5% 0.8% 1915 Atlántico 20.8% 7.1% 17.9% 50.5% 3.7% 4465 Barranquilla 14.9% 4.6% 21.6% 56.3% 2.6% 1796 Barranquilla 17.8% 5.1% 21.6% 52.8% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Begoté, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boycó 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Beuaramanga 11.6.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.0% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% <td>Apartadó</td> <td>23.4%</td> <td>7.4%</td> <td>18.3%</td> <td>48.5%</td> <td>2.5%</td> <td>1358</td>	Apartadó	23.4%	7.4%	18.3%	48.5%	2.5%	1358
Atlántico 20.8% 7.1% 17.9% 50.5% 3.7% 4465 Barrancabermeja 14.9% 4.6% 21.6% 56.3% 2.6% 1796 Barrancyilla 17.8% 5.1% 21.6% 56.3% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Bogotfo, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.9% 65.2% 0.8% 3830 Buenaventura 16.6% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% <td>Arauca</td> <td>18.2%</td> <td>5.6%</td> <td>18.9%</td> <td>55.4%</td> <td>2.0%</td> <td>2079</td>	Arauca	18.2%	5.6%	18.9%	55.4%	2.0%	2079
Borrancobermeja 14.9% 4.6% 21.6% 56.3% 2.6% 1796 Barranquilla 17.8% 5.1% 21.6% 52.8% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Bogotá, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.2% 54.1% 1.1% 6992 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Benaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caya 14.4%	Armenia	16.9%	4.5%	22.2%	55.5%	0.8%	1915
Barranquilla 17.8% 5.1% 21.6% 52.8% 2.6% 7800 Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Begotó, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolívar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.9% 65.2% 0.8% 3830 Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3%	Atlántico	20.8%	7.1%	17.9%	50.5%	3.7%	4465
Bello 13.3% 4.0% 22.9% 58.6% 1.2% 2933 Bogotá, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolívar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.6% 4.3% 20.7% 54.9% 3.4% 822 Coldos 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casarare 20.9%	Barrancabermeja	14.9%	4.6%	21.6%	56.3%	2.6%	1796
Bogotó, D.C. 12.1% 3.0% 19.7% 62.8% 2.3% 47936 Bolívar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buenoventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetó 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartage 18.7% 4.6% 18.6% 56.0% 2.1% 811 Cartage 18.7% <	Barranquilla	17.8%	5.1%	21.6%	52.8%	2.6%	7800
Bolivar 25.2% 10.6% 18.7% 41.3% 4.2% 8304 Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.6% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetà 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartage 18.7% 4.6% 18.6% 56.0% 2.1% 811 Cartage 18.7% 4.6% 18.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2%<	Bello	13.3%	4.0%	22.9%	58.6%	1.2%	2933
Boyacá 16.4% 5.8% 22.6% 54.1% 1.1% 6892 Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartage 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casara 19.6% 5.9% 22.2% 49.3% 1.6% 226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 6652 Chocó 22.9% 8.8%	Bogotá, D.C.	12.1%	3.0%	19.7%	62.8%	2.3%	47936
Bucaramanga 11.5% 3.6% 19.0% 65.2% 0.8% 3830 Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casarae 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cesar 19.6% 7.2% 16.4% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8%	Bolívar	25.2%	10.6%	18.7%	41.3%	4.2%	8304
Buenaventura 16.0% 5.8% 14.9% 60.9% 2.5% 2848 Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Caldas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6%	Boyacá	16.4%	5.8%	22.6%	54.1%	1.1%	6892
Buga 16.8% 4.3% 20.7% 54.9% 3.4% 822 Calidas 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% <t< td=""><td>Bucaramanga</td><td>11.5%</td><td>3.6%</td><td>19.0%</td><td>65.2%</td><td>0.8%</td><td>3830</td></t<>	Bucaramanga	11.5%	3.6%	19.0%	65.2%	0.8%	3830
Coldos 17.0% 5.8% 18.2% 57.3% 1.6% 4508 Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartagena 16.3% 5.7% 18.0% 56.0% 2.1% 811 Cartagena 16.3% 5.7% 18.6% 56.0% 2.1% 811 Cartagena 16.4% 6.6% 14.6% 59.4% 2.9% 811 Casar 19.6% 7.2% 16.4% 53.8% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3%	Buenaventura	16.0%	5.8%	14.9%	60.9%	2.5%	2848
Cali 14.1% 3.9% 19.9% 60.0% 2.2% 14474 Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 9652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cudiamarca 13.6% 4.2%	Buga	16.8%	4.3%	20.7%	54.9%	3.4%	822
Caquetá 18.9% 6.6% 17.8% 54.8% 1.9% 2765 Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartage 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8%	Caldas	17.0%	5.8%	18.2%	57.3%	1.6%	4508
Cartagena 16.3% 5.7% 18.0% 57.1% 2.9% 8114 Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8%	Cali	14.1%	3.9%	19.9%	60.0%	2.2%	14474
Cartago 18.7% 4.6% 18.6% 56.0% 2.1% 811 Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Envigado 6.3% 2.5% </td <td>Caquetá</td> <td>18.9%</td> <td>6.6%</td> <td>17.8%</td> <td>54.8%</td> <td>1.9%</td> <td>2765</td>	Caquetá	18.9%	6.6%	17.8%	54.8%	1.9%	2765
Casanare 20.9% 5.9% 22.2% 49.3% 1.6% 2226 Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% </td <td>Cartagena</td> <td>16.3%</td> <td>5.7%</td> <td>18.0%</td> <td>57.1%</td> <td>2.9%</td> <td>8114</td>	Cartagena	16.3%	5.7%	18.0%	57.1%	2.9%	8114
Cauca 16.4% 6.6% 14.6% 59.4% 2.9% 9635 Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9%<	Cartago	18.7%	4.6%	18.6%	56.0%	2.1%	811
Cesar 19.6% 7.2% 16.4% 53.8% 2.9% 6652 Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Floridablanca 11.6% <	Casanare	20.9%	5.9%	22.2%	49.3%	1.6%	2226
Chocó 22.9% 8.8% 16.3% 47.1% 5.0% 3467 Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 14.3%	Cauca	16.4%	6.6%	14.6%	59.4%	2.9%	9635
Chía 10.8% 2.6% 19.9% 65.3% 1.4% 961 Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3%	Cesar	19.6%	7.2%	16.4%	53.8%	2.9%	6652
Ciénaga 13.7% 6.3% 19.0% 55.7% 5.3% 1144 Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Chocó	22.9%	8.8%	16.3%	47.1%	5.0%	3467
Cundinamarca 13.6% 4.2% 19.7% 61.2% 1.4% 11911 Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Chía	10.8%	2.6%	19.9%	65.3%	1.4%	961
Córdoba 23.2% 8.3% 17.6% 47.5% 3.4% 9883 Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Ciénaga	13.7%	6.3%	19.0%	55.7%	5.3%	1144
Cúcuta 17.7% 4.8% 21.8% 54.8% 1.0% 5554 Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Cundinamarca	13.6%	4.2%	19.7%	61.2%	1.4%	11911
Dosquebradas 15.9% 3.8% 22.4% 56.1% 1.8% 1196 Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Córdoba	23.2%	8.3%	17.6%	47.5%	3.4%	9883
Duitama 8.6% 1.9% 18.9% 70.2% 0.4% 1001 Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Cúcuta	17.7%	4.8%	21.8%	54.8%	1.0%	5554
Envigado 6.3% 2.5% 19.2% 71.0% 1.0% 989 Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Dosquebradas	15.9%	3.8%	22.4%	56.1%	1.8%	1196
Facatativá 14.3% 2.9% 17.9% 62.2% 2.7% 1083 Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Duitama	8.6%	1.9%	18.9%	70.2%	0.4%	1001
Florencia 22.2% 7.1% 19.7% 48.9% 2.2% 1576 Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Envigado	6.3%	2.5%	19.2%	71.0%	1.0%	989
Floridablanca 11.6% 2.7% 20.5% 64.2% 0.9% 1916 Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Facatativá	14.3%	2.9%	17.9%	62.2%	2.7%	1083
Fusagasugá 14.3% 3.6% 24.5% 56.2% 1.5% 1029	Florencia	22.2%	7.1%	19.7%	48.9%	2.2%	1576
	Floridablanca	11.6%	2.7%	20.5%	64.2%	0.9%	1916
Girardot 20.3% 6.8% 20.3% 49.3% 3.2% 688	Fusagasugá	14.3%	3.6%	24.5%	56.2%	1.5%	1029
	Girardot	20.3%	6.8%	20.3%	49.3%	3.2%	688

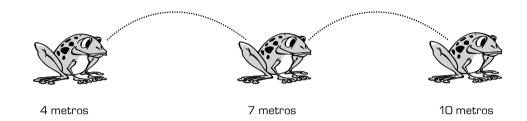


ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	17.7%	6.3%	20.8%	52.9%	2.3%	2577
Soacha	13.1%	3.6%	22.5%	59.8%	1.1%	4049
Sogamoso	11.6%	3.0%	23.0%	61.9%	0.4%	1118
Soledad	16.9%	4.5%	21.0%	56.1%	1.5%	3865
Sucre	25.3%	9.4%	18.5%	43.8%	3.0%	6081
Tolima	18.8%	7.0%	19.1%	52.8%	2.3%	7516
Tuluá	13.0%	4.3%	20.0%	61.2%	1.5%	1638
Tumaco	21.9%	9.2%	16.3%	46.5%	6.2%	2161
Tunja	11.3%	2.2%	19.4%	66.2%	0.9%	1288
Turbo	24.2%	9.2%	18.6%	44.0%	4.0%	1474
Uribia	24.8%	12.5%	16.6%	39.6%	6.4%	729
Valle del Cauca	17.3%	4.8%	20.4%	55.0%	2.4%	6459
Valledupar	19.4%	6.5%	17.3%	53.3%	3.5%	3519
Vaupés	40.0%	0.0%	0.0%	0.0%	60.0%	5
Vichada	18.4%	7.4%	18.2%	52.5%	3.5%	543
Villavicencio	14.8%	3.8%	19.9%	60.3%	1.3%	4132
Yopal	18.7%	3.7%	23.6%	52.2%	1.7%	1346
Yumbo	16.6%	6.2%	22.5%	52.7%	1.9%	933
Zipaquirá	12.2%	2.6%	19.5%	65.0%	0.7%	987
Colombia	16.7%	5.4%	19.4%	56.2%	2.3%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 18.

Observa los saltos que da la rana.



¿Cuántos metros avanza la rana en cada salto?

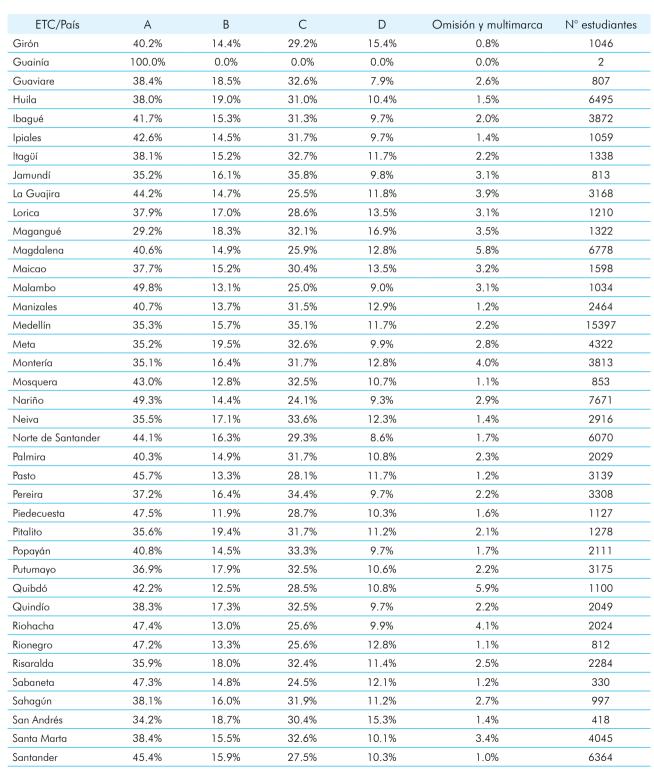
- A. 3 metros.
- B. 4 metros.
- C. 10 metros.
- D. 13 metros.

• Estructura

Competencia	Razonamiento y argumentación
Componente	Numérico - variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos
Nivel de desempeño	Avanzado
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

Amazonas 33.6% 17.0% 33.4% 12.6% 3.4% 20.0% 22998 Antioquia 38.7% 16.5% 30.8% 11.4% 2.6% 22998 Aparodó 34.9% 19.0% 30.6% 12.2% 3.3% 1358 Arauca 41.3% 17.6% 29.2% 9.9% 2.1% 2079 Armenia 39.1% 16.5% 33.7% 9.8% 0.9% 1915 Alfaíntico 45.4% 14.0% 32.0% 10.2% 2.4% 1796 Barrancabermaja 39.4% 16.0% 32.0% 10.2% 2.4% 1796 Barranquilla 39.7% 14.2% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Belgeth, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47786 Bolivar 31.8% 19.7% 30.3% 15.0% 5.2% 3304	ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Aportadó 34.9% 19.0% 30.6% 12.2% 3.3% 1358 Arauca 41.3% 17.6% 29.2% 9.9% 2.1% 2079 Armenia 39.1% 16.5% 33.7% 9.8% 0.9% 1915 Alfonica 45.4% 14.0% 26.2% 10.7% 3.7% 4465 Barranquilla 39.4% 16.0% 32.0% 10.2% 2.4% 1776 Bella 39.9% 14.2% 32.3% 10.9% 2.9% 7800 Bella 39.0% 14.8% 32.3% 10.9% 2.9% 7800 Bella 39.0% 14.8% 32.3% 11.2% 1.7% 2933 Bogorto, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolivar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Bucarorentura 45.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenoventura 45.	Amazonas	33.6%	17.0%	33.4%	12.6%	3.4%	800
Arauca 41.3% 17.6% 29.2% 9.9% 2.1% 2079 Armenia 39.1% 16.5% 33.7% 9.8% 0.9% 1915 Alflántico 45.4% 14.0% 26.2% 10.7% 3.7% 4465 Barrancabarmeja 39.4% 16.0% 32.0% 10.2% 2.4% 1796 Barrancapilla 39.7% 14.2% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogoto, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolivar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boycacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Buga 39.	Antioquia	38.7%	16.5%	30.8%	11.4%	2.6%	22998
Armenia 39.1% 16.5% 33.7% 9.8% 0.9% 1915 Atlántico 45.4% 14.0% 26.2% 10.7% 3.7% 4465 Barranquilla 39.4% 16.0% 32.0% 10.2% 2.4% 1796 Bello 39.0% 14.8% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogotó, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolivar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacó 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaremanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Bucaremanta 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2%	Apartadó	34.9%	19.0%	30.6%	12.2%	3.3%	1358
Atlántico 45.4% 14.0% 26.2% 10.7% 3.7% 4465 Barrancabermeja 39.4% 16.0% 32.0% 10.2% 2.4% 1796 Barrancyilla 39.7% 14.2% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogotfo, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolivar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali	Arauca	41.3%	17.6%	29.2%	9.9%	2.1%	2079
Borrancobermeja 39.4% 16.0% 32.0% 10.2% 2.4% 1796 Barranquilla 39.7% 14.2% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogotá, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolívar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Coli 44.6% 13.3% 30.2% 9.6% 2.2% 2765 Carlagena 44	Armenia	39.1%	16.5%	33.7%	9.8%	0.9%	1915
Barranquilla 39.7% 14.2% 32.3% 10.9% 2.9% 7800 Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogotá, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolívar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1%	Atlántico	45.4%	14.0%	26.2%	10.7%	3.7%	4465
Bello 39.0% 14.8% 32.3% 12.2% 1.7% 2933 Bogotó, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolívar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenavantura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Coldos 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caqueté 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Cartago 36.4%	Barrancabermeja	39.4%	16.0%	32.0%	10.2%	2.4%	1796
Bogotó, D.C. 43.0% 13.4% 29.8% 11.3% 2.5% 47936 Bolívar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenoventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetó 45.2% 16.4% 26.6% 9.6% 2.4% 14474 Cardagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartage 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casarare 35.4%	Barranquilla	39.7%	14.2%	32.3%	10.9%	2.9%	7800
Bolivar 31.8% 17.7% 30.3% 15.0% 5.2% 8304 Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buena onventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 811 Cartage 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casara 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% <td< td=""><td>Bello</td><td>39.0%</td><td>14.8%</td><td>32.3%</td><td>12.2%</td><td>1.7%</td><td>2933</td></td<>	Bello	39.0%	14.8%	32.3%	12.2%	1.7%	2933
Boyacá 36.6% 19.7% 31.8% 10.4% 1.5% 6892 Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartagena 44.1% 14.3% 24.4% 10.0% 3.2% 9635 Cartagena 44.1%	Bogotá, D.C.	43.0%	13.4%	29.8%	11.3%	2.5%	47936
Bucaramanga 49.5% 13.9% 25.7% 9.7% 1.3% 3830 Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cardagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cardagena 36.4% 16.0% 33.3% 11.8% 2.5% 811 Cardagena 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% <td< td=""><td>Bolívar</td><td>31.8%</td><td>17.7%</td><td>30.3%</td><td>15.0%</td><td>5.2%</td><td>8304</td></td<>	Bolívar	31.8%	17.7%	30.3%	15.0%	5.2%	8304
Buenaventura 45.0% 13.1% 28.7% 9.7% 3.5% 2848 Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Caldas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 114474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% </td <td>Boyacá</td> <td>36.6%</td> <td>19.7%</td> <td>31.8%</td> <td>10.4%</td> <td>1.5%</td> <td>6892</td>	Boyacá	36.6%	19.7%	31.8%	10.4%	1.5%	6892
Buga 39.3% 13.7% 31.5% 11.2% 4.3% 822 Calidas 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3%	Bucaramanga	49.5%	13.9%	25.7%	9.7%	1.3%	3830
Coldos 40.2% 16.9% 30.2% 10.7% 2.0% 4508 Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 11144 Cundinamarca 42.6% 16.2%	Buenaventura	45.0%	13.1%	28.7%	9.7%	3.5%	2848
Cali 44.6% 13.3% 30.2% 9.6% 2.4% 14474 Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3%	Buga	39.3%	13.7%	31.5%	11.2%	4.3%	822
Caquetá 45.2% 16.4% 26.6% 9.6% 2.2% 2765 Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartage 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.	Caldas	40.2%	16.9%	30.2%	10.7%	2.0%	4508
Cartagena 44.1% 12.8% 30.2% 9.8% 3.2% 8114 Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% <	Cali	44.6%	13.3%	30.2%	9.6%	2.4%	14474
Cartago 36.4% 16.0% 33.3% 11.8% 2.5% 811 Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% <t< td=""><td>Caquetá</td><td>45.2%</td><td>16.4%</td><td>26.6%</td><td>9.6%</td><td>2.2%</td><td>2765</td></t<>	Caquetá	45.2%	16.4%	26.6%	9.6%	2.2%	2765
Casanare 35.4% 19.9% 31.0% 11.7% 2.0% 2226 Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% <	Cartagena	44.1%	12.8%	30.2%	9.8%	3.2%	8114
Cauca 48.1% 14.3% 24.4% 10.0% 3.2% 9635 Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9%	Cartago	36.4%	16.0%	33.3%	11.8%	2.5%	811
Cesar 44.0% 16.1% 26.2% 10.6% 3.0% 6652 Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2%	Casanare	35.4%	19.9%	31.0%	11.7%	2.0%	2226
Chocó 38.0% 14.4% 27.5% 14.6% 5.5% 3467 Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% <td>Cauca</td> <td>48.1%</td> <td>14.3%</td> <td>24.4%</td> <td>10.0%</td> <td>3.2%</td> <td>9635</td>	Cauca	48.1%	14.3%	24.4%	10.0%	3.2%	9635
Chía 45.0% 11.0% 33.1% 9.7% 1.2% 961 Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.	Cesar	44.0%	16.1%	26.2%	10.6%	3.0%	6652
Ciénaga 51.3% 14.3% 22.6% 6.6% 5.2% 1144 Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Chocó	38.0%	14.4%	27.5%	14.6%	5.5%	3467
Cundinamarca 42.6% 16.2% 29.9% 9.7% 1.6% 11911 Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Chía	45.0%	11.0%	33.1%	9.7%	1.2%	961
Córdoba 39.1% 17.3% 27.2% 12.6% 3.8% 9883 Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Ciénaga	51.3%	14.3%	22.6%	6.6%	5.2%	1144
Cúcuta 38.7% 17.2% 31.1% 11.5% 1.4% 5554 Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Cundinamarca	42.6%	16.2%	29.9%	9.7%	1.6%	11911
Dosquebradas 34.9% 15.9% 33.8% 12.9% 2.6% 1196 Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Córdoba	39.1%	17.3%	27.2%	12.6%	3.8%	9883
Duitama 55.7% 11.9% 23.8% 8.2% 0.4% 1001 Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Cúcuta	38.7%	17.2%	31.1%	11.5%	1.4%	5554
Envigado 52.6% 10.1% 24.8% 11.5% 1.0% 989 Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Dosquebradas	34.9%	15.9%	33.8%	12.9%	2.6%	1196
Facatativá 41.9% 13.4% 30.4% 11.2% 3.1% 1083 Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Duitama	55.7%	11.9%	23.8%	8.2%	0.4%	1001
Florencia 35.2% 19.9% 33.5% 9.7% 1.7% 1576 Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Envigado	52.6%	10.1%	24.8%	11.5%	1.0%	989
Floridablanca 47.8% 13.7% 26.1% 11.6% 0.8% 1916 Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Facatativá	41.9%	13.4%	30.4%	11.2%	3.1%	1083
Fusagasugá 36.1% 14.4% 35.1% 13.1% 1.4% 1029	Florencia	35.2%	19.9%	33.5%	9.7%	1.7%	1576
	Floridablanca	47.8%	13.7%	26.1%	11.6%	0.8%	1916
Girardot 33.3% 18.2% 35.2% 10.5% 2.9% 688	Fusagasugá	36.1%	14.4%	35.1%	13.1%	1.4%	1029
	Girardot	33.3%	18.2%	35.2%	10.5%	2.9%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	41.1%	13.8%	30.9%	12.0%	2.1%	2577
Soacha	38.6%	15.3%	34.2%	10.8%	1.1%	4049
Sogamoso	43.7%	14.8%	29.7%	11.4%	0.4%	1118
Soledad	44.9%	13.6%	30.2%	9.8%	1.6%	3865
Sucre	37.8%	16.9%	27.6%	14.1%	3.5%	6081
Tolima	39.9%	17.8%	29.4%	10.3%	2.6%	7516
Tuluá	43.2%	13.4%	31.4%	10.1%	2.0%	1638
Tumaco	39.8%	14.3%	26.0%	12.0%	7.9%	2161
Tunja	48.7%	13.6%	25.5%	11.2%	1.0%	1288
Turbo	34.3%	18.3%	30.8%	12.8%	3.8%	1474
Uribia	32.2%	17.1%	26.2%	18.2%	6.2%	729
Valle del Cauca	35.4%	17.6%	33.4%	11.0%	2.6%	6459
Valledupar	41.1%	13.7%	30.8%	10.5%	3.9%	3519
Vaupés	0.0%	0.0%	40.0%	0.0%	60.0%	5
Vichada	41.8%	14.0%	26.9%	14.0%	3.3%	543
Villavicencio	41.6%	15.8%	31.3%	10.0%	1.3%	4132
Yopal	36.2%	17.1%	34.0%	10.8%	2.0%	1346
Yumbo	34.3%	16.9%	35.4%	11.1%	2.3%	933
Zipaquirá	51.8%	10.8%	27.3%	9.5%	0.6%	987
Colombia	40.9%	15.5%	30.0%	11.1%	2.6%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 19.

En una escuela deportiva, el año pasado había 45 inscritos. Este año hay 69. Eso significa que del año pasado a este

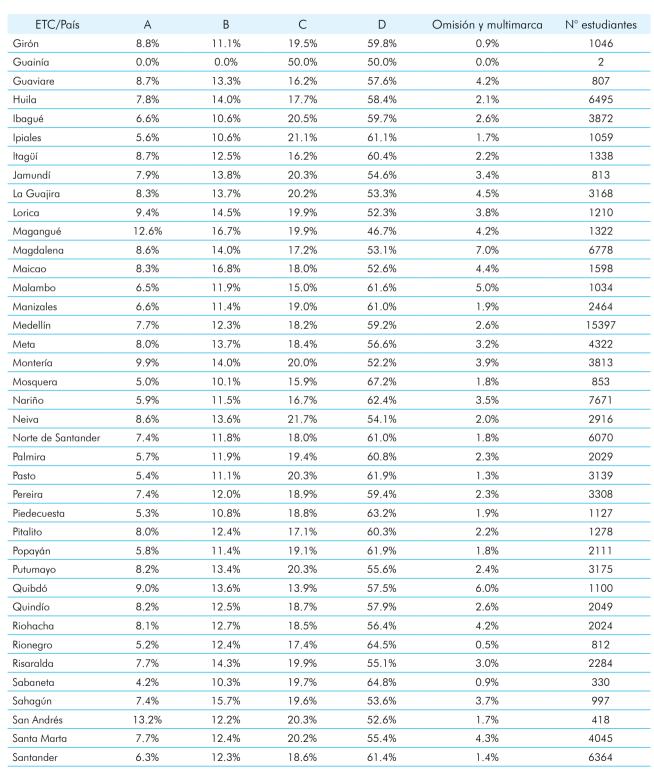
- A. se retiraron 14 personas.
- B. se inscribieron 14 personas más.
- C. se retiraron 24 personas.
- D. se inscribieron 24 personas más.

• Estructura

Competencia	Planteamiento y resolución de problemas
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	8.5%	16.5%	15.9%	56.0%	3.1%	800
Antioquia	7.8%	12.9%	17.3%	58.8%	3.2%	22998
Apartadó	8.7%	14.7%	17.0%	56.3%	3.3%	1358
Arauca	7.5%	12.4%	16.3%	61.4%	2.4%	2079
Armenia	8.2%	13.0%	21.5%	56.2%	1.1%	1915
Atlántico	8.6%	14.6%	19.7%	52.3%	4.9%	4465
Barrancabermeja	7.6%	10.8%	18.6%	59.9%	3.2%	1796
Barranquilla	7.0%	12.2%	18.2%	59.3%	3.3%	7800
Bello	6.6%	11.3%	18.6%	61.9%	1.6%	2933
Bogotá, D.C.	6.1%	11.2%	18.8%	61.0%	2.8%	47936
Bolívar	10.3%	15.6%	19.7%	48.6%	5.8%	8304
Boyacá	8.3%	13.3%	17.7%	59.1%	1.6%	6892
Bucaramanga	5.8%	10.2%	18.9%	63.6%	1.4%	3830
Buenaventura	6.9%	10.9%	17.1%	61.4%	3.6%	2848
Buga	6.4%	11.8%	16.9%	60.1%	4.7%	822
Caldas	7.2%	11.9%	18.6%	59.8%	2.5%	4508
Cali	6.8%	11.5%	18.4%	60.5%	2.8%	14474
Caquetá	7.6%	14.5%	17.3%	58.2%	2.5%	2765
Cartagena	7.6%	12.7%	19.9%	55.8%	4.0%	8114
Cartago	7.2%	12.5%	17.5%	59.4%	3.5%	811
Casanare	9.1%	12.8%	16.0%	59.5%	2.6%	2226
Cauca	6.5%	11.1%	17.9%	60.0%	4.5%	9635
Cesar	7.7%	12.0%	18.4%	58.2%	3.7%	6652
Chocó	9.0%	14.6%	16.4%	53.4%	6.7%	3467
Chía	6.5%	10.5%	16.5%	65.5%	1.0%	961
Ciénaga	6.6%	11.2%	20.1%	55.4%	6.6%	1144
Cundinamarca	6.1%	11.6%	18.0%	62.5%	1.8%	11911
Córdoba	8.9%	14.8%	19.1%	52.9%	4.3%	9883
Cúcuta	7.7%	10.8%	20.1%	59.5%	1.8%	5554
Dosquebradas	7.3%	10.6%	20.5%	58.4%	3.2%	1196
Duitama	4.1%	7.7%	19.5%	68.3%	0.4%	1001
Envigado	4.3%	10.5%	14.3%	69.5%	1.4%	989
Facatativá	5.4%	10.9%	18.9%	61.0%	3.7%	1083
Florencia	8.0%	13.6%	19.9%	56.3%	2.2%	1576
Floridablanca	6.3%	10.3%	17.4%	64.7%	1.4%	1916
Fusagasugá	6.2%	11.1%	18.8%	62.5%	1.5%	1029
Girardot	9.7%	12.6%	17.9%	57.0%	2.8%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.7%	12.0%	19.3%	57.5%	2.5%	2577
Soacha	6.4%	11.9%	20.2%	59.8%	1.7%	4049
Sogamoso	5.5%	10.8%	16.8%	66.3%	0.5%	1118
Soledad	8.3%	12.7%	19.4%	57.4%	2.4%	3865
Sucre	8.6%	14.6%	19.0%	53.3%	4.5%	6081
Tolima	7.5%	13.9%	18.2%	57.2%	3.2%	7516
Tuluá	6.0%	11.4%	17.4%	63.0%	2.1%	1638
Tumaco	8.7%	12.8%	18.3%	51.4%	8.8%	2161
Tunja	4.3%	10.2%	17.5%	67.1%	0.9%	1288
Turbo	10.9%	14.3%	15.9%	54.3%	4.5%	1474
Uribia	11.4%	18.2%	18.8%	42.5%	9.1%	729
Valle del Cauca	6.8%	12.5%	17.6%	59.9%	3.2%	6459
Valledupar	8.0%	13.1%	17.2%	57.4%	4.3%	3519
Vaupés	0.0%	0.0%	0.0%	40.0%	60.0%	5
Vichada	9.6%	13.8%	14.7%	58.7%	3.1%	543
Villavicencio	6.0%	11.2%	18.4%	62.8%	1.7%	4132
Yopal	6.0%	12.3%	17.3%	62.0%	2.5%	1346
Yumbo	9.0%	12.4%	17.9%	57.2%	3.4%	933
Zipaquirá	4.7%	10.4%	18.6%	64.3%	1.9%	987
Colombia	7.3%	12.4%	18.5%	58.7%	3.1%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 20.

En un juego, cada jugador toma una ficha con un número y busca un compañero con otra ficha. Si los números suman 10, el grupo gana.

Estos son los grupos que se formaron con sus respectivas fichas.







¿Cuál o cuáles grupos ganaron?

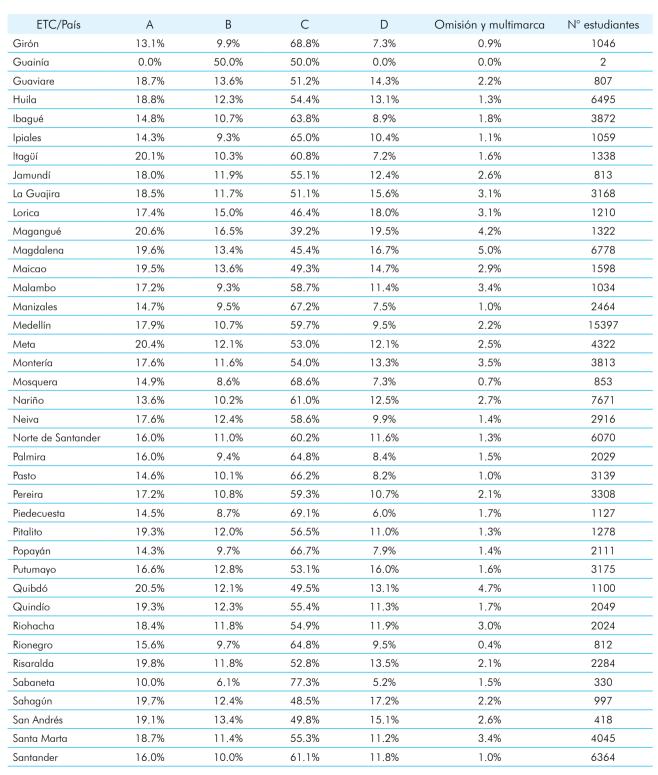
- A. El grupo 1 solamente.
- B. El grupo 2 solamente.
- C. Los grupos 1 y 2, solamente.
- D. Los 3 grupos.

Estructura

Competencia	Planteamiento y resolución de problemas
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	С

• Resultados a nivel de Entidad Territorial certificada (ETC)

Amazonas 16.6% 13.8% 48.6% 17.4% 3.6% 800 Antioquia 18.9% 11.6% 54.5% 12.7% 2.3% 2998 Aparodol 22.6% 13.0% 50.5% 11.0% 3.0% 1338 Arauca 18.3% 11.3% 56.1% 12.4% 2.0% 2079 Amenia 17.0% 11.1% 61.6% 9.7% 0.5% 1915 Alfonico 16.8% 12.7% 54.1% 12.9% 3.5% 4465 Barrancaberneja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barrancqualla 17.2% 10.2% 60.2% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Begoth, D.C. 14.0% 8.7% 68.3% 2.3% 4.7% 8304 Boyad 15.4% 12.1% 55.3% 12.6% 1.5% 6892 Buccardamanga 1	ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Aparadó 22.6% 13.0% 50.3% 11.0% 3.0% 1358 Arouca 18.3% 11.3% 56.1% 12.4% 2.0% 2079 Armenia 17.0% 11.1% 61.6% 9.7% 0.5% 1915 Affénico 16.8% 12.7% 54.1% 12.9% 3.5% 4465 Barrancabermeja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barrancabermeja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barrancabermeja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barrancabermeja 16.4% 10.2% 60.2% 9.8% 2.3% 780 Belloa 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Belloa 18.2% 9.0% 63.3% 6.8% 1.2% 2.933 Beloyac 12.4% 42.9% 18.3% 4.7% 8304 Buyac 12.4% <t< td=""><td>Amazonas</td><td>16.6%</td><td>13.8%</td><td>48.6%</td><td>17.4%</td><td>3.6%</td><td>800</td></t<>	Amazonas	16.6%	13.8%	48.6%	17.4%	3.6%	800
Arauca 18.3% 11.3% 56.1% 12.4% 2.0% 2079 Armenia 17.0% 11.1% 61.6% 9.7% 0.5% 1915 Aflántico 16.8% 12.7% 54.1% 12.9% 3.5% 4465 Barrancabermeja 16.4% 10.1% 61.3% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Begold, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bollvar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyaccá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaromanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buen arrical 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2%	Antioquia	18.9%	11.6%	54.5%	12.7%	2.3%	22998
Armenia 17.0% 11.1% 61.6% 9.7% 0.5% 1915 Alfantico 16.8% 12.7% 54.1% 12.9% 3.5% 4465 Barrancebermeja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barranquilla 17.2% 10.2% 60.2% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Bogotd, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bolívar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyacó 18.5% 12.1% 55.3% 12.0% 1.5% 6692 Bucaromanga 12.7% 7.7% 71.9 6.8% 0.9% 3830 Bucaromanga 12.1% 55.3% 12.0% 1.5% 6992 Bucaromanga 12.1% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60	Apartadó	22.6%	13.0%	50.3%	11.0%	3.0%	1358
Atlántico 16.8% 12.7% 54.1% 12.9% 3.5% 4465 Barrancabermeja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barrancapilla 17.2% 10.2% 60.2% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 293 Bollvar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Bolivar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Bouracá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaromentga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buenavantura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Caj 15.5%	Arauca	18.3%	11.3%	56.1%	12.4%	2.0%	2079
Barrançaberneja 16.4% 10.1% 61.3% 9.8% 2.3% 1796 Barranquilla 17.2% 10.2% 60.2% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Begotó, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bolívar 19.9% 14.2% 42.9% 118.3% 4.7% 8304 Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buenaventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 3.3% 2.1% 1447 Cali 18.4%	Armenia	17.0%	11.1%	61.6%	9.7%	0.5%	1915
Borranquilla 17.2% 10.2% 60.2% 9.8% 2.5% 7800 Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Bogotó, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bolkar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Bueanventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Call 15.5% 9.3% 64.8% 8.3% 2.1% 2476 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 2765 Call 15.5% 9.	Atlántico	16.8%	12.7%	54.1%	12.9%	3.5%	4465
Bello 18.2% 9.0% 63.0% 8.6% 1.2% 2933 Bogotá, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bolloar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Bucaramanga 12.7% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Coldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14.74 Carlada 15.7% <	Barrancabermeja	16.4%	10.1%	61.3%	9.8%	2.3%	1796
Bogoté, D.C. 14.0% 8.7% 68.3% 6.8% 2.3% 47936 Bolivar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buena certain 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartagena 19.0% 10.6% 58.8% 9.0% 2.6% 811 Cartagena 19.0%	Barranquilla	17.2%	10.2%	60.2%	9.8%	2.5%	7800
Bolivar 19.9% 14.2% 42.9% 18.3% 4.7% 8304 Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buenoventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartagena 15.7%	Bello	18.2%	9.0%	63.0%	8.6%	1.2%	2933
Boyacá 18.5% 12.1% 55.3% 12.6% 1.5% 6892 Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buenaventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldos 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagen 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casarare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2	Bogotá, D.C.	14.0%	8.7%	68.3%	6.8%	2.3%	47936
Bucaramanga 12.7% 7.7% 71.9% 6.8% 0.9% 3830 Buenaventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cardagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cardagen 19.0% 10.6% 58.8% 9.0% 2.6% 811 Cardago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casar 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 4.9% 3467 Chía 17.7% 14.1% </td <td>Bolívar</td> <td>19.9%</td> <td>14.2%</td> <td>42.9%</td> <td>18.3%</td> <td>4.7%</td> <td>8304</td>	Bolívar	19.9%	14.2%	42.9%	18.3%	4.7%	8304
Buenaventura 15.4% 10.8% 59.2% 12.1% 2.5% 2848 Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Caldas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4%	Boyacá	18.5%	12.1%	55.3%	12.6%	1.5%	6892
Buga 17.4% 9.4% 60.1% 9.6% 3.5% 822 Calidas 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 11144 Cuoda 16.2% 10.1%	Bucaramanga	12.7%	7.7%	71.9%	6.8%	0.9%	3830
Coldos 17.2% 11.6% 57.5% 12.0% 1.6% 4508 Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cuidama 18.6% 13.7%	Buenaventura	15.4%	10.8%	59.2%	12.1%	2.5%	2848
Cali 15.5% 9.3% 64.8% 8.3% 2.1% 14474 Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7%	Buga	17.4%	9.4%	60.1%	9.6%	3.5%	822
Caquetá 18.4% 12.4% 53.7% 13.9% 1.6% 2765 Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10	Caldas	17.2%	11.6%	57.5%	12.0%	1.6%	4508
Cartagena 15.7% 11.5% 59.1% 10.8% 2.9% 8114 Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% <	Cali	15.5%	9.3%	64.8%	8.3%	2.1%	14474
Cartago 19.0% 10.6% 58.8% 9.0% 2.6% 811 Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Envigado 10.8% <td< td=""><td>Caquetá</td><td>18.4%</td><td>12.4%</td><td>53.7%</td><td>13.9%</td><td>1.6%</td><td>2765</td></td<>	Caquetá	18.4%	12.4%	53.7%	13.9%	1.6%	2765
Casanare 20.9% 12.3% 52.2% 12.5% 2.1% 2226 Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% <td< td=""><td>Cartagena</td><td>15.7%</td><td>11.5%</td><td>59.1%</td><td>10.8%</td><td>2.9%</td><td>8114</td></td<>	Cartagena	15.7%	11.5%	59.1%	10.8%	2.9%	8114
Cauca 16.4% 11.5% 54.7% 14.1% 3.2% 9635 Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Florencia 19.9% 1	Cartago	19.0%	10.6%	58.8%	9.0%	2.6%	811
Cesar 18.6% 12.2% 52.7% 13.7% 2.8% 6652 Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% <t< td=""><td>Casanare</td><td>20.9%</td><td>12.3%</td><td>52.2%</td><td>12.5%</td><td>2.1%</td><td>2226</td></t<>	Casanare	20.9%	12.3%	52.2%	12.5%	2.1%	2226
Chocó 17.7% 14.1% 46.6% 16.7% 4.9% 3467 Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9%	Cauca	16.4%	11.5%	54.7%	14.1%	3.2%	9635
Chía 12.8% 8.4% 71.4% 6.3% 1.0% 961 Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9%	Cesar	18.6%	12.2%	52.7%	13.7%	2.8%	6652
Ciénaga 14.7% 11.2% 58.3% 11.5% 4.4% 1144 Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Chocó	17.7%	14.1%	46.6%	16.7%	4.9%	3467
Cundinamarca 16.2% 10.1% 63.0% 9.2% 1.5% 11911 Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Chía	12.8%	8.4%	71.4%	6.3%	1.0%	961
Córdoba 18.6% 13.7% 47.1% 17.1% 3.4% 9883 Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Ciénaga	14.7%	11.2%	58.3%	11.5%	4.4%	1144
Cúcuta 17.9% 10.0% 60.8% 10.2% 1.1% 5554 Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Cundinamarca	16.2%	10.1%	63.0%	9.2%	1.5%	11911
Dosquebradas 16.0% 10.1% 63.3% 8.6% 2.0% 1196 Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Córdoba	18.6%	13.7%	47.1%	17.1%	3.4%	9883
Duitama 12.4% 8.5% 73.1% 5.6% 0.4% 1001 Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Cúcuta	17.9%	10.0%	60.8%	10.2%	1.1%	5554
Envigado 10.8% 7.9% 75.3% 4.9% 1.1% 989 Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Dosquebradas	16.0%	10.1%	63.3%	8.6%	2.0%	1196
Facatativá 17.1% 9.3% 64.5% 6.2% 3.0% 1083 Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Duitama	12.4%	8.5%	73.1%	5.6%	0.4%	1001
Florencia 19.9% 13.9% 53.2% 11.7% 1.3% 1576 Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Envigado	10.8%	7.9%	75.3%	4.9%	1.1%	989
Floridablanca 12.9% 7.5% 71.7% 7.0% 0.8% 1916 Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Facatativá	17.1%	9.3%	64.5%	6.2%	3.0%	1083
Fusagasugá 16.9% 10.9% 62.6% 8.4% 1.3% 1029	Florencia	19.9%	13.9%	53.2%	11.7%	1.3%	1576
	Floridablanca	12.9%	7.5%	71.7%	7.0%	0.8%	1916
Girardot 17.9% 10.6% 57.6% 10.8% 3.2% 688	Fusagasugá	16.9%	10.9%	62.6%	8.4%	1.3%	1029
	Girardot	17.9%	10.6%	57.6%	10.8%	3.2%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	17.2%	10.9%	57.7%	12.0%	2.2%	2577
Soacha	16.1%	10.6%	64.5%	7.7%	1.1%	4049
Sogamoso	14.0%	9.2%	69.4%	7.2%	0.2%	1118
Soledad	17.5%	10.9%	60.6%	9.4%	1.6%	3865
Sucre	19.0%	15.1%	45.4%	17.3%	3.2%	6081
Tolima	19.6%	12.6%	51.6%	14.1%	2.2%	7516
Tuluá	17.2%	9.6%	62.9%	8.5%	1.7%	1638
Tumaco	18.4%	13.0%	46.1%	15.3%	7.2%	2161
Tunja	11.3%	8.7%	71.7%	7.4%	0.9%	1288
Turbo	21.2%	14.7%	43.5%	17.2%	3.4%	1474
Uribia	23.0%	14.3%	35.3%	21.0%	6.4%	729
Valle del Cauca	19.2%	12.1%	55.3%	11.0%	2.4%	6459
Valledupar	17.9%	10.8%	56.0%	12.2%	3.1%	3519
Vaupés	20.0%	0.0%	20.0%	0.0%	60.0%	5
Vichada	21.2%	11.6%	46.4%	18.6%	2.2%	543
Villavicencio	14.8%	9.3%	67.2%	7.6%	1.0%	4132
Yopal	17.5%	11.1%	59.8%	10.2%	1.3%	1346
Yumbo	19.3%	13.6%	53.6%	11.7%	1.8%	933
Zipaquirá	13.3%	10.1%	69.1%	6.8%	0.7%	987
Colombia	16.9%	11.0%	58.6%	11.2%	2.3%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



A la fiesta de Carlos asistieron en principio 25 personas, luego llegaron 13 personas más. ¿Cuántas personas en total asistieron a la fiesta?

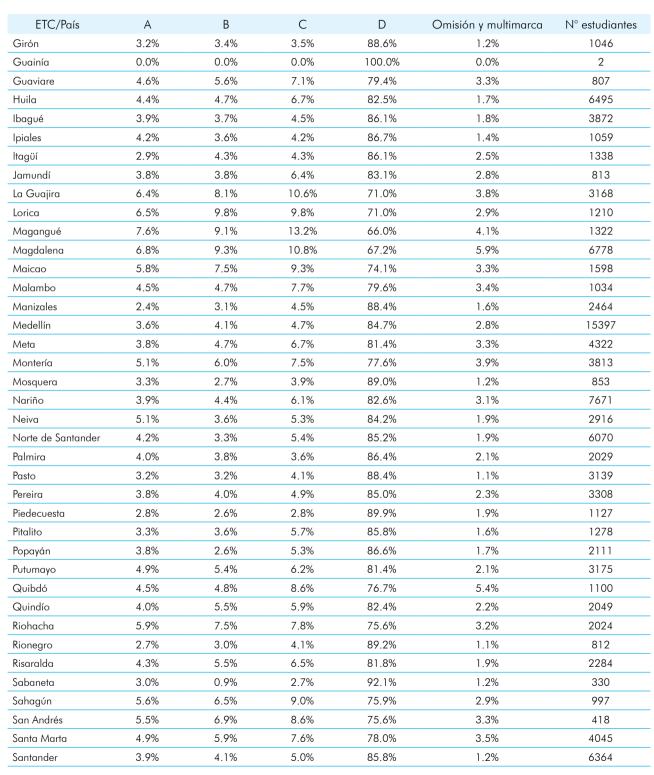
- A. 12
- B. 13
- C. 25
- D. 38

• Estructura

Competencia	Planteamiento y resolución de problemas
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	7.0%	7.9%	9.5%	72.0%	3.6%	800
Antioquia	4.3%	5.1%	6.2%	81.7%	2.6%	22998
Apartadó	4.1%	6.9%	7.8%	77.6%	3.6%	1358
Arauca	4.0%	4.4%	6.3%	83.1%	2.2%	2079
Armenia	5.5%	3.4%	4.6%	85.2%	1.2%	1915
Atlántico	6.2%	7.3%	8.4%	74.1%	4.0%	4465
Barrancabermeja	3.3%	4.6%	5.5%	84.1%	2.6%	1796
Barranquilla	4.7%	4.4%	6.0%	82.1%	2.8%	7800
Bello	2.9%	3.1%	3.7%	88.7%	1.6%	2933
Bogotá, D.C.	2.7%	2.7%	3.4%	88.6%	2.5%	47936
Bolívar	7.4%	9.9%	12.4%	65.2%	5.1%	8304
Boyacá	3.4%	5.0%	6.2%	83.9%	1.5%	6892
Bucaramanga	2.7%	2.4%	3.6%	89.9%	1.4%	3830
Buenaventura	4.7%	5.1%	7.3%	79.6%	3.3%	2848
Buga	4.0%	2.8%	5.5%	83.3%	4.4%	822
Caldas	4.1%	4.1%	5.5%	84.6%	1.7%	4508
Cali	3.5%	3.5%	4.5%	86.2%	2.3%	14474
Caquetá	4.9%	4.4%	6.5%	81.8%	2.4%	2765
Cartagena	4.9%	6.0%	7.5%	77.9%	3.7%	8114
Cartago	3.6%	3.9%	5.4%	84.2%	2.8%	811
Casanare	3.7%	5.0%	6.5%	82.6%	2.2%	2226
Cauca	5.3%	5.7%	7.0%	78.6%	3.4%	9635
Cesar	5.2%	5.6%	8.2%	77.6%	3.4%	6652
Chocó	6.5%	10.1%	11.3%	66.9%	5.1%	3467
Chía	2.7%	2.6%	3.1%	90.4%	1.1%	961
Ciénaga	5.8%	6.6%	6.4%	76.2%	5.0%	1144
Cundinamarca	3.1%	3.3%	4.6%	87.4%	1.7%	11911
Córdoba	6.2%	7.9%	9.6%	72.4%	3.9%	9883
Cúcuta	4.0%	3.6%	4.8%	86.2%	1.4%	5554
Dosquebradas	2.8%	2.9%	4.9%	86.1%	3.2%	1196
Duitama	2.9%	2.1%	3.9%	90.6%	0.5%	1001
Envigado	1.7%	1.3%	3.0%	92.5%	1.4%	989
Facatativá	2.7%	3.6%	3.3%	87.0%	3.4%	1083
Florencia	4.9%	4.7%	5.5%	82.8%	2.1%	1576
Floridablanca	3.4%	2.8%	3.7%	89.1%	1.0%	1916
Fusagasugá	2.7%	3.6%	4.4%	87.9%	1.4%	1029
Girardot	4.9%	5.4%	6.3%	80.1%	3.3%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	5.4%	5.4%	7.5%	79.3%	2.5%	2577
Soacha	3.3%	3.0%	4.2%	88.3%	1.2%	4049
Sogamoso	3.1%	3.8%	2.9%	89.1%	1.2%	1118
Soledad	4.9%	4.5%	5.7%	82.9%	2.0%	3865
Sucre	6.8%	8.2%	10.6%	70.9%	3.5%	6081
Tolima	4.4%	5.6%	7.4%	79.7%	2.8%	7516
Tuluá	2.9%	3.5%	4.3%	86.5%	2.7%	1638
Tumaco	6.7%	10.6%	9.8%	65.1%	7.8%	2161
Tunja	3.4%	4.1%	2.6%	88.9%	0.9%	1288
Turbo	7.3%	8.9%	12.1%	67.8%	3.9%	1474
Uribia	7.7%	11.5%	15.0%	58.0%	7.8%	729
Valle del Cauca	4.3%	5.0%	5.5%	82.5%	2.7%	6459
Valledupar	4.4%	5.3%	6.7%	79.4%	4.2%	3519
Vaupés	0.0%	20.0%	0.0%	20.0%	60.0%	5
Vichada	6.1%	6.8%	7.7%	75.9%	3.5%	543
Villavicencio	2.7%	2.9%	3.8%	89.0%	1.6%	4132
Yopal	3.3%	3.3%	4.4%	87.5%	1.5%	1346
Yumbo	4.1%	4.8%	8.1%	80.8%	2.1%	933
Zipaquirá	2.8%	2.7%	3.1%	90.0%	1.3%	987
Colombia	4.2%	4.8%	6.1%	82.2%	2.7%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



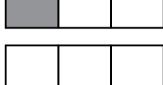
¿Cuál de las siguientes figuras representa $\frac{1}{3}$?

Ten en cuenta que el numerador representa la parte sombreada

Α.



C.



B.



D.

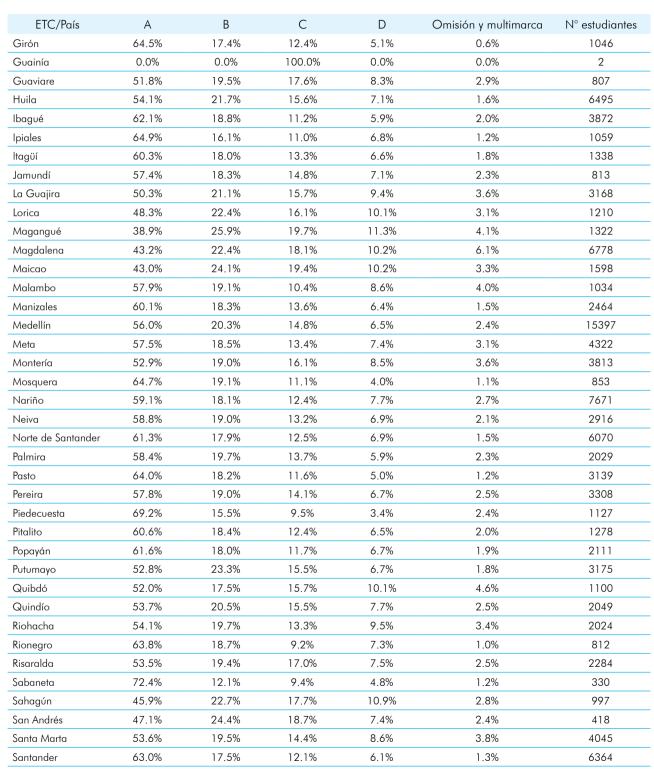


• Estructura

Competencia	Comunicación, representación y modelación
Componente	Numérico - variacional
Afirmación	Usar fracciones comunes para describir situaciones continuas y discretas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	44.9%	24.5%	16.4%	10.8%	3.5%	800
Antioquia	52.8%	21.5%	15.4%	7.5%	2.7%	22998
Apartadó	47.5%	21.9%	17.1%	9.0%	4.6%	1358
Arauca	58.9%	19.2%	12.8%	6.4%	2.6%	2079
Armenia	59.0%	18.1%	15.3%	6.6%	1.0%	1915
Atlántico	52.7%	19.8%	14.2%	9.0%	4.3%	4465
Barrancabermeja	61.0%	17.4%	12.2%	7.4%	2.0%	1796
Barranquilla	57.8%	19.2%	13.3%	6.8%	2.8%	7800
Bello	58.9%	19.2%	13.2%	6.9%	1.8%	2933
Bogotá, D.C.	62.4%	18.0%	12.1%	4.9%	2.6%	47936
Bolívar	41.6%	23.6%	18.6%	10.9%	5.3%	8304
Boyacá	54.4%	21.3%	15.3%	7.4%	1.5%	6892
Bucaramanga	69.5%	14.9%	9.5%	4.6%	1.5%	3830
Buenaventura	58.3%	20.3%	10.7%	7.7%	3.1%	2848
Buga	54.9%	20.9%	14.0%	6.0%	4.3%	822
Caldas	56.2%	20.4%	14.1%	7.5%	1.9%	4508
Cali	59.5%	18.9%	12.8%	6.0%	2.9%	14474
Caquetá	57.7%	19.2%	13.1%	7.8%	2.1%	2765
Cartagena	56.2%	19.3%	13.2%	7.9%	3.3%	8114
Cartago	54.0%	21.5%	14.5%	6.4%	3.6%	811
Casanare	53.7%	22.1%	14.7%	6.7%	2.7%	2226
Cauca	56.2%	19.1%	13.3%	8.1%	3.3%	9635
Cesar	52.1%	20.7%	15.5%	8.5%	3.3%	6652
Chocó	42.0%	22.1%	18.4%	12.2%	5.3%	3467
Chía	65.7%	17.2%	10.7%	4.9%	1.6%	961
Ciénaga	49.1%	20.9%	14.0%	9.1%	6.9%	1144
Cundinamarca	60.7%	18.7%	12.9%	6.0%	1.7%	11911
Córdoba	45.7%	23.3%	17.5%	10.0%	3.6%	9883
Cúcuta	63.9%	17.1%	12.3%	5.3%	1.4%	5554
Dosquebradas	63.3%	17.4%	11.7%	5.2%	2.4%	1196
Duitama	74.1%	15.1%	5.9%	4.2%	0.7%	1001
Envigado	68.3%	15.1%	11.0%	4.4%	1.2%	989
Facatativá	67.7%	13.9%	8.7%	6.7%	3.0%	1083
Florencia	50.1%	22.7%	17.5%	7.5%	2.3%	1576
Floridablanca	71.7%	14.5%	8.5%	4.3%	1.0%	1916
Fusagasugá	61.4%	17.5%	12.9%	6.8%	1.4%	1029
Girardot	53.2%	20.5%	16.4%	6.5%	3.3%	688

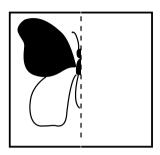


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	55.1%	21.1%	13.9%	7.2%	2.7%	2577
Soacha	64.2%	16.1%	12.2%	6.3%	1.1%	4049
Sogamoso	69.2%	14.7%	10.6%	5.0%	0.5%	1118
Soledad	61.8%	18.1%	12.1%	6.3%	1.8%	3865
Sucre	43.6%	23.4%	18.9%	10.5%	3.7%	6081
Tolima	52.0%	21.0%	15.2%	9.1%	2.7%	7516
Tuluá	60.4%	18.0%	13.0%	6.4%	2.1%	1638
Tumaco	43.5%	21.7%	16.6%	10.6%	7.6%	2161
Tunja	68.4%	17.5%	9.0%	4.1%	1.0%	1288
Turbo	40.7%	24.4%	18.6%	11.9%	4.5%	1474
Uribia	39.5%	21.9%	19.6%	11.7%	7.3%	729
Valle del Cauca	50.9%	21.3%	16.5%	8.6%	2.8%	6459
Valledupar	55.7%	19.2%	14.4%	6.7%	4.1%	3519
Vaupés	20.0%	20.0%	0.0%	0.0%	60.0%	5
Vichada	50.1%	21.0%	16.8%	8.7%	3.5%	543
Villavicencio	67.1%	16.4%	10.7%	4.4%	1.5%	4132
Yopal	60.2%	18.1%	12.1%	7.4%	2.2%	1346
Yumbo	50.8%	21.7%	17.8%	7.3%	2.5%	933
Zipaquirá	76.5%	10.9%	8.1%	3.4%	1.0%	987
Colombia	56.5%	19.6%	14.0%	7.2%	2.7%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

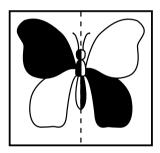
• Pregunta 23.

Acabaste de dibujar con témpera esta figura y la doblaste por la línea punteada.

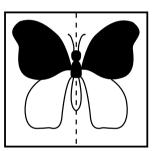


Al desdoblar la hoja, ¿qué figura observas?

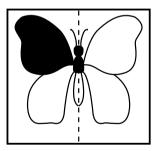
Α.



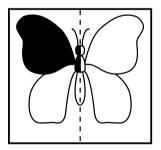
В.



C.



D.

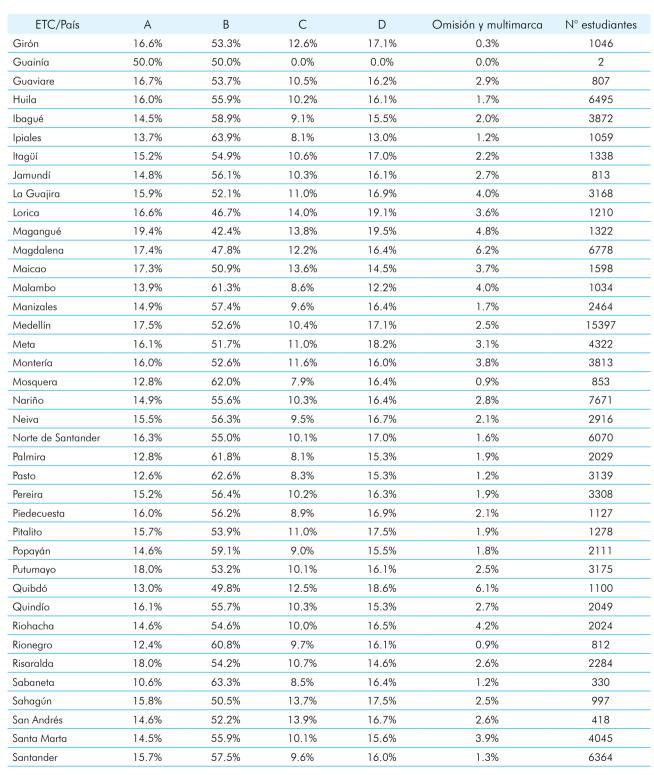


• Estructura

Competencia	Razonamiento y argumentación
Componente	Geométrico - métrico
Afirmación	Establecer conjeturas acerca de las propiedades de las figuras planas cuando sobre ellas se ha hecho una transformación (traslación, rotación, reflexión (simetría), ampliación, reducción).
Nivel de desempeño	Satisfactorio
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	13.4%	53.9%	13.6%	15.9%	3.3%	800
Antioquia	17.9%	51.9%	11.5%	15.9%	2.8%	22998
Apartadó	17.8%	47.4%	14.4%	16.3%	4.1%	1358
Arauca	16.0%	53.4%	11.5%	16.5%	2.5%	2079
Armenia	15.6%	54.8%	11.7%	16.9%	0.9%	1915
Atlántico	16.1%	50.9%	11.4%	17.2%	4.4%	4465
Barrancabermeja	14.6%	55.2%	11.1%	16.6%	2.6%	1796
Barranquilla	13.8%	55.2%	10.2%	18.0%	2.8%	7800
Bello	14.7%	56.2%	10.1%	17.5%	1.5%	2933
Bogotá, D.C.	13.2%	61.5%	8.2%	14.6%	2.5%	47936
Bolívar	19.6%	44.1%	13.7%	16.8%	5.7%	8304
Boyacá	18.0%	52.9%	11.4%	16.2%	1.6%	6892
Bucaramanga	13.2%	60.5%	9.1%	15.7%	1.5%	3830
Buenaventura	14.0%	55.1%	10.8%	17.4%	2.8%	2848
Buga	12.7%	61.2%	7.8%	14.0%	4.4%	822
Caldas	15.6%	57.1%	9.7%	15.3%	2.3%	4508
Cali	13.0%	60.9%	9.2%	14.3%	2.6%	14474
Caquetá	18.3%	53.5%	11.8%	14.2%	2.2%	2765
Cartagena	13.9%	56.8%	10.9%	14.9%	3.5%	8114
Cartago	12.8%	54.6%	12.3%	16.9%	3.3%	811
Casanare	17.3%	50.1%	12.4%	17.7%	2.5%	2226
Cauca	14.7%	57.0%	9.9%	14.7%	3.6%	9635
Cesar	15.5%	53.6%	10.1%	17.6%	3.2%	6652
Chocó	18.2%	44.8%	13.9%	17.2%	5.9%	3467
Chía	10.3%	64.5%	7.5%	16.0%	1.7%	961
Ciénaga	13.5%	55.9%	8.2%	17.1%	5.2%	1144
Cundinamarca	14.1%	59.9%	9.1%	15.2%	1.6%	11911
Córdoba	17.3%	48.7%	13.2%	17.0%	3.7%	9883
Cúcuta	16.9%	55.4%	9.6%	16.8%	1.4%	5554
Dosquebradas	14.6%	56.0%	10.3%	15.9%	3.2%	1196
Duitama	11.3%	66.0%	8.1%	13.9%	0.7%	1001
Envigado	14.8%	63.0%	7.2%	13.3%	1.7%	989
Facatativá	14.3%	59.3%	9.0%	15.0%	2.5%	1083
Florencia	16.9%	53.4%	11.3%	16.1%	2.3%	1576
Floridablanca	12.6%	59.0%	10.2%	17.0%	1.2%	1916
Fusagasugá	14.8%	60.1%	9.2%	15.0%	1.0%	1029
Girardot	14.1%	61.3%	9.0%	12.2%	3.3%	688

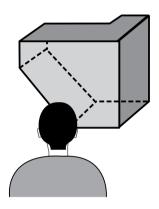


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	15.9%	53.6%	11.3%	16.7%	2.6%	2577
Soacha	14.1%	60.9%	8.9%	14.9%	1.3%	4049
Sogamoso	14.6%	58.5%	9.0%	17.1%	0.8%	1118
Soledad	13.9%	57.5%	9.5%	17.2%	1.9%	3865
Sucre	18.8%	46.6%	14.0%	17.0%	3.6%	6081
Tolima	17.9%	52.2%	10.8%	16.2%	2.8%	7516
Tuluá	12.7%	60.9%	9.5%	15.0%	2.0%	1638
Tumaco	18.3%	45.9%	12.3%	15.9%	7.6%	2161
Tunja	13.3%	62.9%	7.5%	14.9%	1.4%	1288
Turbo	20.0%	40.7%	15.1%	19.1%	5.0%	1474
Uribia	20.6%	38.3%	15.5%	16.7%	8.9%	729
Valle del Cauca	15.9%	56.0%	9.4%	15.9%	2.8%	6459
Valledupar	15.0%	56.5%	9.4%	15.2%	3.9%	3519
Vaupés	0.0%	0.0%	20.0%	20.0%	60.0%	5
Vichada	21.2%	50.1%	12.5%	14.2%	2.0%	543
Villavicencio	13.9%	60.0%	9.0%	15.8%	1.3%	4132
Yopal	14.0%	57.8%	9.6%	17.2%	1.4%	1346
Yumbo	18.2%	54.3%	9.5%	15.5%	2.4%	933
Zipaquirá	10.2%	69.0%	6.1%	13.6%	1.1%	987
Colombia	15.5%	55.5%	10.3%	16.0%	2.8%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 24.

Giovanni está viendo un sólido de frente.



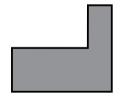
¿Qué observa Giovanni del sólido?

Α.

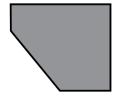
В.

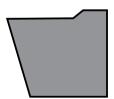
C.

D.







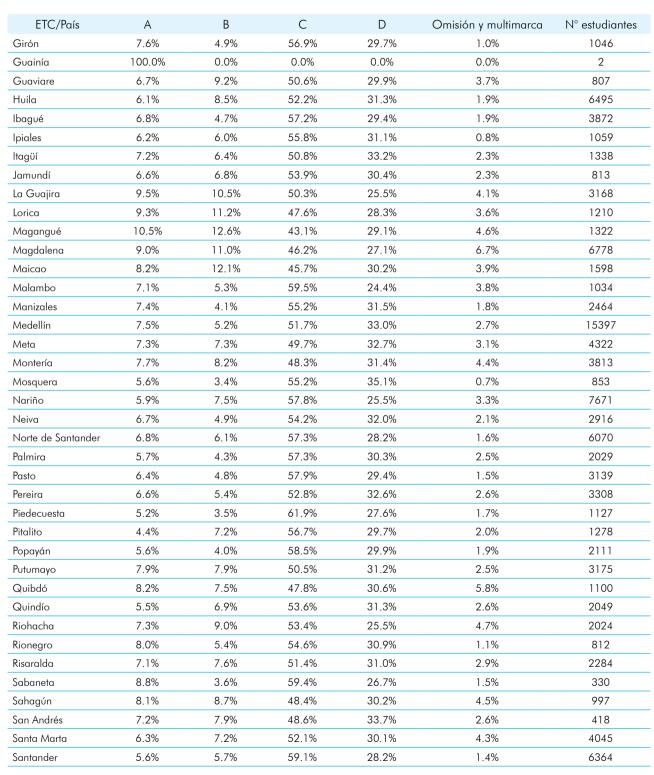


• Estructura

Competencia Razonamiento y argumentación					
Componente Geométrico - métrico					
Afirmación	Relacionar objetos tridimensionales con sus respectivas vistas.				
Nivel de desempeño	Satisfactorio				
Respuesta Correcta	С				

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	7.4%	12.8%	47.1%	29.6%	3.1%	800
Antioquia	7.5%	7.7%	51.8%	29.9%	3.1%	22998
Apartadó	7.5%	7.7%	52.1%	28.9%	3.8%	1358
Arauca	6.3%	8.0%	49.4%	33.7%	2.7%	2079
Armenia	7.7%	5.3%	53.8%	32.3%	0.8%	1915
Atlántico	8.2%	8.6%	51.7%	26.9%	4.6%	4465
Barrancabermeja	5.2%	4.6%	57.4%	30.1%	2.7%	1796
Barranquilla	6.1%	6.2%	54.2%	30.3%	3.2%	7800
Bello	6.6%	4.7%	54.6%	32.6%	1.5%	2933
Bogotá, D.C.	5.9%	3.8%	56.9%	30.7%	2.7%	47936
Bolívar	9.6%	13.0%	41.8%	29.3%	6.2%	8304
Boyacá	7.5%	7.5%	50.1%	33.1%	1.8%	6892
Bucaramanga	6.5%	4.2%	60.8%	27.0%	1.5%	3830
Buenaventura	6.2%	8.1%	54.3%	28.2%	3.2%	2848
Buga	5.0%	4.0%	56.8%	30.4%	3.8%	822
Caldas	6.8%	6.6%	53.6%	30.9%	2.1%	4508
Cali	5.7%	4.0%	58.6%	29.0%	2.7%	14474
Caquetá	8.2%	8.1%	54.7%	26.4%	2.5%	2765
Cartagena	6.2%	7.6%	55.8%	26.8%	3.6%	8114
Cartago	4.4%	5.1%	54.9%	32.3%	3.3%	811
Casanare	6.9%	8.7%	51.0%	30.8%	2.6%	2226
Cauca	6.8%	9.3%	55.5%	24.5%	3.9%	9635
Cesar	7.4%	8.7%	53.7%	26.5%	3.7%	6652
Chocó	10.3%	14.6%	43.2%	25.8%	6.1%	3467
Chía	5.8%	3.5%	53.9%	35.2%	1.6%	961
Ciénaga	7.3%	7.9%	53.0%	26.6%	5.2%	1144
Cundinamarca	6.6%	5.3%	54.6%	31.8%	1.6%	11911
Córdoba	9.1%	11.2%	46.9%	28.7%	4.1%	9883
Cúcuta	6.2%	5.2%	55.0%	32.0%	1.6%	5554
Dosquebradas	6.4%	5.7%	53.8%	30.9%	3.1%	1196
Duitama	6.6%	5.6%	63.0%	24.0%	0.8%	1001
Envigado	5.6%	3.7%	58.9%	30.5%	1.2%	989
Facatativá	6.1%	3.5%	55.1%	32.5%	2.8%	1083
Florencia	7.2%	7.0%	53.7%	30.0%	2.0%	1576
Floridablanca	6.3%	3.4%	61.2%	27.7%	1.4%	1916
Fusagasugá	5.6%	6.0%	50.9%	35.9%	1.6%	1029



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	6.0%	7.6%	52.5%	31.4%	2.4%	2577
Soacha	5.8%	4.6%	55.9%	32.4%	1.4%	4049
Sogamoso	6.4%	4.8%	59.1%	28.6%	1.0%	1118
Soledad	5.6%	5.7%	57.2%	29.5%	2.0%	3865
Sucre	9.0%	12.1%	45.2%	29.5%	4.2%	6081
Tolima	6.8%	7.4%	52.8%	30.2%	2.8%	7516
ΤυΙυά	6.2%	4.1%	56.6%	31.0%	2.1%	1638
Tumaco	9.3%	12.9%	44.1%	24.7%	9.0%	2161
Tunja	7.2%	4.0%	58.4%	28.9%	1.5%	1288
Turbo	11.5%	12.3%	42.5%	28.5%	5.1%	1474
Uribia	12.1%	12.6%	41.6%	24.0%	9.7%	729
Valle del Cauca	5.9%	5.8%	53.7%	31.5%	3.1%	6459
Valledupar	7.2%	6.4%	54.6%	27.4%	4.4%	3519
Vaupés	0.0%	20.0%	20.0%	0.0%	60.0%	5
Vichada	7.7%	8.3%	49.4%	31.3%	3.3%	543
Villavicencio	6.1%	5.2%	56.4%	30.8%	1.5%	4132
Yopal	5.5%	5.9%	54.8%	31.4%	2.5%	1346
Yumbo	8.3%	5.8%	50.6%	33.0%	2.4%	933
Zipaquirá	4.7%	2.8%	57.3%	34.0%	1.1%	987
Colombia	6.9%	6.8%	53.5%	29.8%	3.0%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 25.

Don Pablo tiene el metro de la figura.



Este metro es el más adecuado para medir

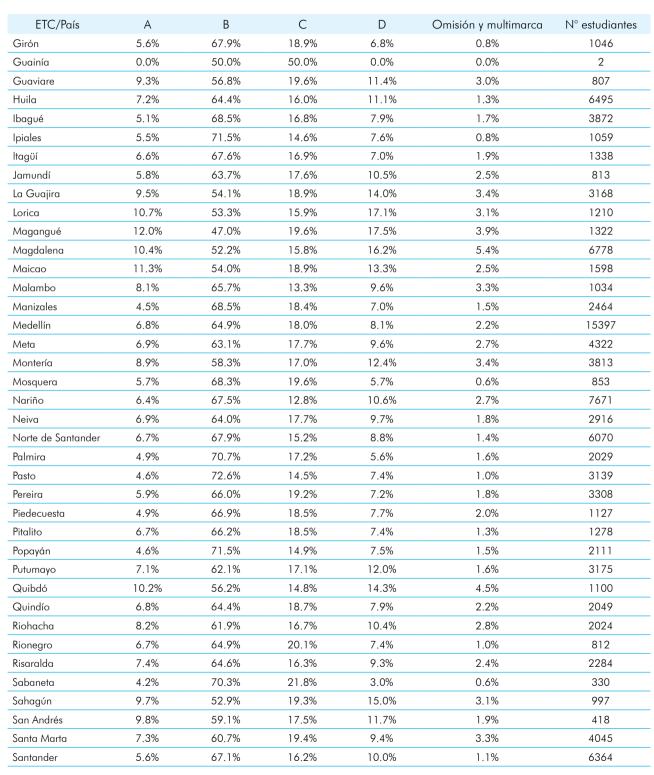
- la distancia entre una ciudad y otra. el ancho de la pared de una habitación.
- B.
- el tamaño de una bacteria. C.
- la altura de un edificio.

• Estructura

Competencia	Comunicación, representación y modelación
Componente	Geométrico - métrico
Afirmación	Establecer correspondencia entre objetos o eventos y patrones o instrumentos de medida.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	8.8%	57.9%	16.1%	14.3%	3.0%	800
Antioquia	8.0%	61.4%	17.2%	11.1%	2.3%	22998
Apartadó	8.8%	57.3%	20.4%	10.8%	2.8%	1358
Arauca	7.6%	64.6%	17.0%	9.0%	1.8%	2079
Armenia	6.5%	67.6%	18.4%	6.6%	0.8%	1915
Atlántico	9.0%	59.4%	14.9%	12.9%	3.8%	4465
Barrancabermeja	6.5%	64.4%	18.7%	8.0%	2.5%	1796
Barranquilla	7.1%	64.2%	17.3%	8.9%	2.6%	7800
Bello	6.0%	69.3%	16.4%	7.3%	1.0%	2933
Bogotá, D.C.	4.5%	69.8%	17.3%	6.0%	2.4%	47936
Bolívar	12.6%	48.2%	18.2%	16.4%	4.7%	8304
Boyacá	6.7%	64.2%	16.4%	11.6%	1.2%	6892
Bucaramanga	4.5%	68.5%	18.1%	7.8%	1.0%	3830
Buenaventura	7.9%	61.4%	17.5%	10.7%	2.4%	2848
Buga	6.1%	65.2%	18.9%	6.3%	3.5%	822
Caldas	5.9%	66.8%	16.6%	9.0%	1.7%	4508
Cali	5.2%	67.3%	19.0%	6.3%	2.2%	14474
Caquetá	8.8%	60.2%	18.8%	10.6%	1.7%	2765
Cartagena	7.3%	62.4%	16.9%	10.0%	3.3%	8114
Cartago	6.0%	64.7%	20.2%	6.3%	2.7%	811
Casanare	8.0%	60.8%	17.9%	10.9%	2.3%	2226
Cauca	7.4%	64.0%	13.3%	12.5%	2.9%	9635
Cesar	8.1%	60.7%	16.3%	12.0%	2.8%	6652
Chocó	13.4%	46.1%	16.1%	19.6%	4.7%	3467
Chía	3.4%	72.4%	15.9%	7.2%	1.0%	961
Ciénaga	7.3%	62.8%	13.3%	11.9%	4.6%	1144
Cundinamarca	5.3%	69.3%	16.6%	7.3%	1.5%	11911
Córdoba	10.9%	53.2%	17.1%	15.5%	3.3%	9883
Cúcuta	6.0%	66.9%	18.0%	8.1%	1.1%	5554
Dosquebradas	6.1%	65.4%	19.9%	6.5%	2.1%	1196
Duitama	3.2%	76.3%	14.3%	5.7%	0.5%	1001
Envigado	3.1%	76.7%	14.4%	4.6%	1.2%	989
Facatativá	4.6%	70.1%	16.1%	6.8%	2.4%	1083
Florencia	6.4%	60.3%	22.8%	9.1%	1.3%	1576
Floridablanca	4.2%	69.6%	18.8%	6.2%	1.1%	1916
Fusagasugá	6.2%	67.4%	17.3%	7.7%	1.4%	1029
Girardot	8.0%	62.9%	16.6%	9.9%	2.6%	688



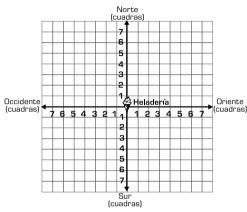
ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.4%	61.1%	17.4%	10.4%	2.8%	2577
Soacha	5.1%	69.7%	17.4%	6.6%	1.1%	4049
Sogamoso	4.0%	70.7%	16.9%	7.7%	0.7%	1118
Soledad	6.9%	66.6%	16.0%	8.9%	1.6%	3865
Sucre	10.5%	53.2%	16.6%	16.3%	3.4%	6081
Tolima	7.3%	62.3%	16.9%	11.2%	2.2%	7516
Tuluá	5.4%	66.4%	18.7%	7.5%	2.0%	1638
Tumaco	10.7%	51.9%	13.8%	16.4%	7.1%	2161
Tunja	5.3%	73.4%	13.1%	7.2%	0.9%	1288
Turbo	13.5%	46.7%	19.6%	15.8%	4.4%	1474
Uribia	14.5%	48.4%	15.1%	14.4%	7.5%	729
Valle del Cauca	5.7%	64.9%	19.3%	7.9%	2.2%	6459
Valledupar	6.6%	62.1%	19.1%	8.8%	3.4%	3519
Vaupés	0.0%	40.0%	0.0%	0.0%	60.0%	5
Vichada	7.9%	57.6%	16.8%	14.9%	2.8%	543
Villavicencio	4.5%	70.7%	17.4%	6.3%	1.2%	4132
Yopal	5.9%	68.3%	16.0%	8.0%	1.9%	1346
Yumbo	7.2%	62.1%	19.8%	9.1%	1.8%	933
Zipaquirá	3.6%	73.5%	15.4%	6.5%	1.0%	987
Colombia	6.9%	63.9%	17.1%	9.7%	2.4%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

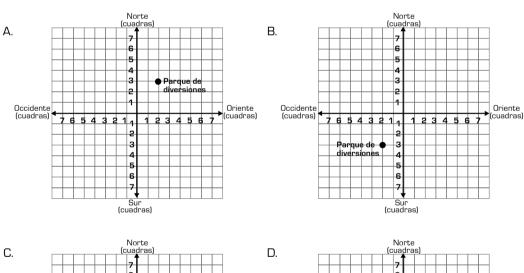
>

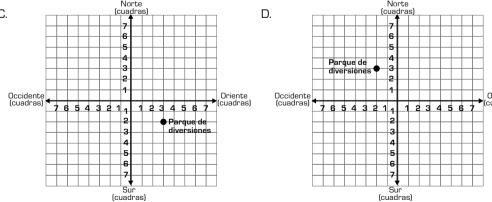
• Pregunta 26.

Para llegar al parque de diversiones se deben recorrer 2 cuadras al oriente de la heladería y luego, 3 al norte.



¿Dónde se ubica el parque de diversiones?



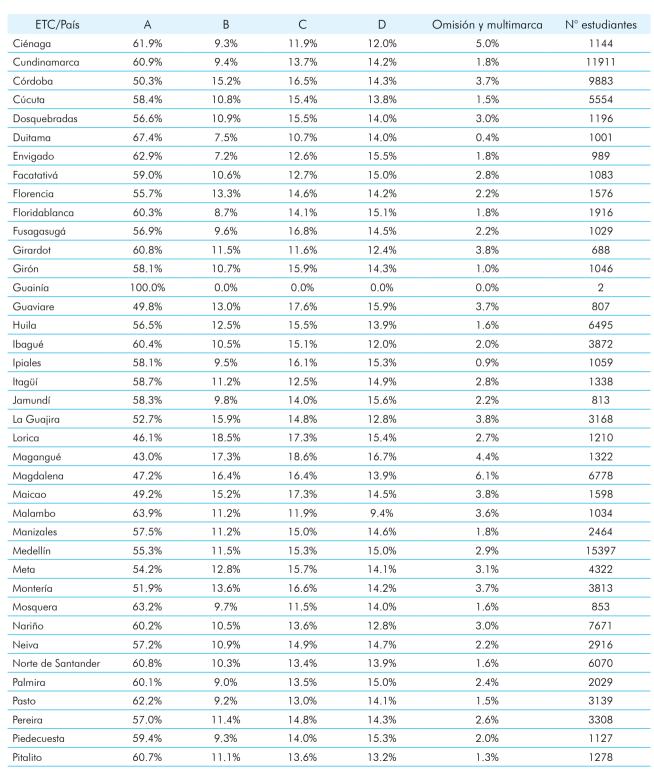


• Estructura

Competencia	Comunicación, representación y modelación					
Componente	Geométrico - métrico					
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición					
Nivel de desempeño	Satisfactorio					
Respuesta Correcta	A					

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	46.0%	16.3%	19.3%	14.4%	4.1%	800
Antioquia	55.1%	12.9%	15.4%	13.8%	2.7%	22998
Apartadó	51.3%	14.2%	16.1%	14.6%	3.8%	1358
Arauca	57.1%	11.8%	14.6%	14.0%	2.4%	2079
Armenia	59.6%	9.5%	16.4%	13.4%	1.1%	1915
Atlántico	54.0%	14.0%	15.2%	12.7%	4.0%	4465
Barrancabermeja	56.7%	11.4%	15.4%	14.1%	2.3%	1796
Barranquilla	55.8%	12.4%	15.1%	13.8%	2.9%	7800
Bello	58.6%	9.7%	14.6%	15.6%	1.5%	2933
Bogotá, D.C.	61.9%	8.3%	12.9%	14.1%	2.7%	47936
Bolívar	43.2%	18.1%	18.4%	15.0%	5.2%	8304
Boyacá	54.9%	12.5%	16.3%	14.5%	1.8%	6892
Bucaramanga	63.1%	9.0%	12.5%	13.9%	1.5%	3830
Buenaventura	57.7%	12.6%	14.0%	12.9%	2.9%	2848
Buga	60.3%	10.2%	12.8%	12.8%	3.9%	822
Caldas	57.3%	12.5%	14.6%	13.6%	2.0%	4508
Cali	61.9%	9.5%	12.8%	13.1%	2.7%	14474
Caquetá	59.3%	12.5%	13.3%	12.7%	2.3%	2765
Cartagena	57.3%	12.3%	13.9%	12.8%	3.7%	8114
Cartago	55.2%	8.9%	16.4%	15.5%	3.9%	811
Casanare	52.2%	12.4%	17.7%	15.0%	2.7%	2226
Саиса	59.4%	12.0%	13.1%	12.2%	3.2%	9635
Cesar	56.5%	12.9%	14.7%	12.7%	3.1%	6652
Chocó	46.7%	16.7%	17.5%	13.8%	5.3%	3467
Chía	64.7%	7.4%	13.6%	12.9%	1.4%	961



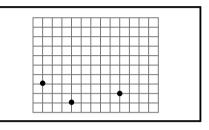
ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Popayán	63.8%	9.2%	13.8%	11.7%	1.5%	2111
Putumayo	54.4%	12.9%	16.1%	15.0%	1.6%	3175
Quibdó	47.7%	15.0%	18.6%	14.5%	4.1%	1100
Quindío	54.1%	13.6%	14.8%	15.1%	2.3%	2049
Riohacha	54.0%	13.8%	16.1%	12.5%	3.8%	2024
Rionegro	59.5%	10.5%	15.0%	14.2%	0.9%	812
Risaralda	56.5%	11.8%	15.4%	13.8%	2.5%	2284
Sabaneta	61.8%	8.5%	12.4%	16.1%	1.2%	330
Sahagún	48.8%	15.7%	17.3%	15.3%	2.8%	997
San Andrés	47.1%	14.6%	16.7%	18.7%	2.9%	418
Santa Marta	54.1%	12.6%	15.8%	14.1%	3.3%	4045
Santander	61.1%	9.8%	14.2%	13.8%	1.1%	6364
Sincelejo	51.9%	14.0%	15.8%	15.4%	2.9%	2577
Soacha	62.8%	9.0%	12.7%	14.3%	1.2%	4049
Sogamoso	58.9%	9.0%	15.3%	16.1%	0.6%	1118
Soledad	60.3%	11.6%	13.6%	12.8%	1.8%	3865
Sucre	46.2%	16.7%	17.8%	15.5%	3.7%	6081
Tolima	55.2%	13.1%	15.3%	13.9%	2.6%	7516
Tuluá	60.4%	9.8%	13.4%	14.3%	2.1%	1638
Tumaco	45.1%	15.8%	15.5%	15.6%	8.0%	2161
Tunja	61.7%	8.6%	14.5%	13.9%	1.2%	1288
Turbo	42.7%	17.9%	19.0%	15.5%	5.0%	1474
Uribia	36.8%	23.2%	17.6%	14.5%	8.0%	729
Valle del Cauca	56.4%	11.9%	15.0%	13.9%	2.7%	6459
Valledupar	58.3%	11.4%	13.9%	12.2%	4.1%	3519
Vaupés	20.0%	0.0%	0.0%	20.0%	60.0%	5
Vichada	49.9%	14.2%	19.3%	14.2%	2.4%	543
Villavicencio	61.7%	9.4%	13.6%	13.7%	1.6%	4132
Yopal	57.5%	10.8%	12.7%	16.6%	2.3%	1346
Yumbo	54.1%	13.6%	15.3%	13.1%	3.9%	933
Zipaquirá	69.8%	6.9%	11.9%	10.0%	1.4%	987
Colombia	56.9%	11.7%	14.7%	13.9%	2.8%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

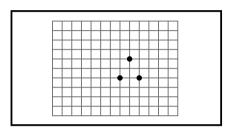
• Pregunta 27.

Si unes tres puntos con líneas rectas puedes armar un triángulo. ¿Con cuál conjunto de puntos **NO** puedes hacerlo?

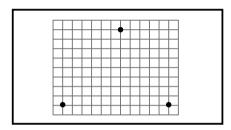
Α.



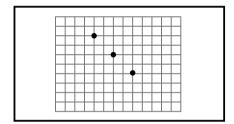
В.



C.



D.

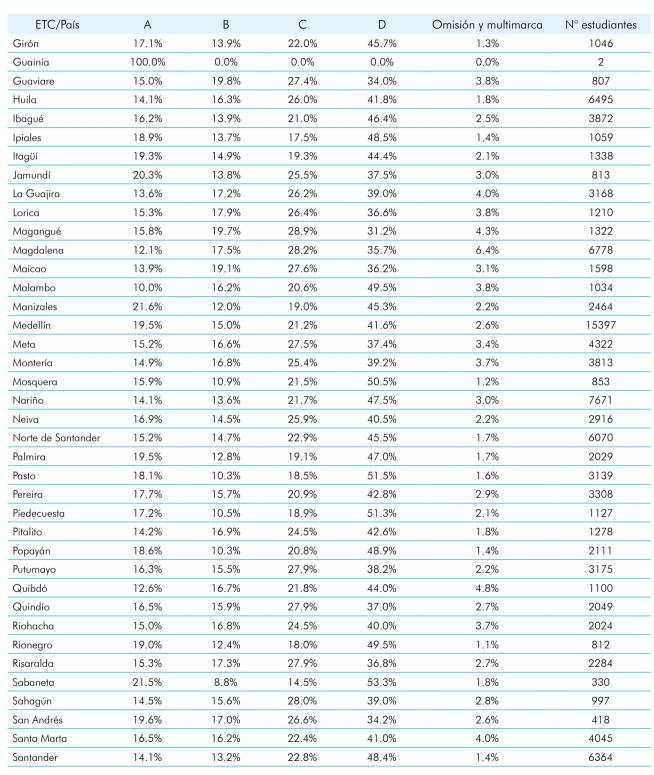


• Estructura

Competencia	Planteamiento y resolución de problemas
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Avanzado
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	14.6%	15.4%	30.0%	35.1%	4.9%	800
Antioquia	16.0%	17.9%	24.5%	38.7%	3.0%	22998
Apartadó	13.6%	18.9%	24.8%	38.5%	4.2%	1358
Arauca	14.5%	15.3%	25.1%	42.1%	3.0%	2079
Armenia	18.6%	15.2%	21.5%	43.2%	1.4%	1915
Atlántico	13.9%	15.5%	26.4%	39.8%	4.5%	4465
Barrancabermeja	14.7%	14.0%	23.9%	45.2%	2.2%	1796
Barranquilla	14.6%	15.1%	24.0%	43.2%	3.1%	7800
Bello	19.7%	14.2%	19.7%	44.3%	2.1%	2933
Bogotá, D.C.	17.8%	11.4%	18.4%	49.5%	2.9%	47936
Bolívar	13.4%	19.8%	28.9%	32.0%	5.9%	8304
Boyacá	15.6%	16.0%	26.1%	40.4%	1.9%	6892
Bucaramanga	16.6%	10.6%	19.7%	51.4%	1.6%	3830
Buenaventura	16.3%	15.9%	24.6%	40.2%	3.0%	2848
Buga	17.0%	14.7%	20.4%	44.2%	3.6%	822
Caldas	18.1%	14.6%	23.1%	41.8%	2.4%	4508
Cali	19.4%	12.3%	18.8%	46.8%	2.8%	14474
Caquetá	13.2%	17.0%	27.8%	39.5%	2.6%	2765
Cartagena	14.0%	14.2%	22.3%	45.8%	3.8%	8114
Cartago	20.6%	15.3%	21.7%	38.8%	3.6%	811
Casanare	16.4%	16.9%	26.5%	37.6%	2.5%	2226
Саиса	12.6%	14.6%	24.7%	44.5%	3.6%	9635
Cesar	13.1%	17.3%	24.9%	41.6%	3.2%	6652
Chocó	15.4%	18.6%	27.0%	33.3%	5.7%	3467
Chía	18.5%	9.4%	17.5%	53.7%	0.9%	961
Ciénaga	13.3%	17.3%	23.4%	41.6%	4.4%	1144
Cundinamarca	15.7%	12.3%	22.4%	47.5%	2.0%	11911
Córdoba	13.5%	18.2%	27.8%	36.6%	3.8%	9883
Cúcuta	17.1%	14.2%	23.7%	43.5%	1.5%	5554
Dosquebradas	18.8%	12.5%	21.0%	44.6%	3.0%	1196
Duitama	19.2%	7.8%	12.9%	59.6%	0.5%	1001
Envigado	21.9%	8.6%	13.3%	54.5%	1.6%	989
Facatativá	17.4%	10.9%	18.3%	50.2%	3.2%	1083
Florencia	14.5%	18.6%	28.5%	36.4%	2.0%	1576
Floridablanca	19.8%	9.9%	17.5%	51.0%	1.7%	1916
Fusagasugá	17.1%	14.3%	23.4%	43.3%	1.8%	1029
Girardot	16.6%	18.3%	24.7%	37.4%	3.1%	688



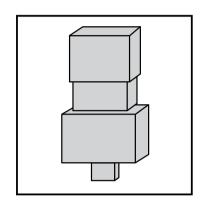
ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	13.9%	14.6%	24.3%	44.0%	3.3%	2577
Soacha	18.0%	12.3%	20.4%	47.9%	1.5%	4049
Sogamoso	17.9%	12.7%	19.8%	48.9%	0.7%	1118
Soledad	14.3%	14.2%	22.1%	47.9%	1.4%	3865
Sucre	13.1%	18.9%	28.7%	35.4%	3.9%	6081
Tolima	14.6%	17.5%	27.0%	38.4%	2.7%	7516
ΤυΙυά	19.5%	13.2%	18.4%	46.0%	2.9%	1638
Tumaco	13.6%	19.3%	28.3%	31.1%	7.7%	2161
Tunja	17.9%	8.9%	17.9%	54.0%	1.4%	1288
Turbo	14.6%	23.6%	27.3%	29.6%	5.0%	1474
Uribia	20.2%	18.8%	28.1%	25.8%	7.1%	729
Valle del Cauca	17.6%	16.0%	24.2%	39.4%	2.9%	6459
Valledupar	14.9%	13.9%	22.7%	44.7%	3.8%	3519
Vaupés	0.0%	20.0%	0.0%	20.0%	60.0%	5
Vichada	13.3%	19.0%	31.5%	33.3%	2.9%	543
Villavicencio	16.5%	13.4%	21.3%	47.2%	1.6%	4132
Yopal	16.6%	13.2%	25.3%	42.1%	2.8%	1346
Yumbo	19.1%	16.0%	24.1%	38.6%	2.3%	933
Zipaquirá	16.4%	12.2%	18.1%	52.1%	1.2%	987
Colombia	16.1%	14.8%	23.1%	43.1%	2.9%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

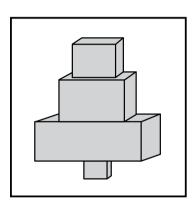
• Pregunta 28.

Se armó una torre con bloques, empezando con el más grande. Cada bloque es más pequeño que el anterior. ¿Cuál torre se armó?

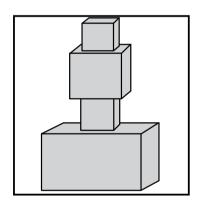
Α.



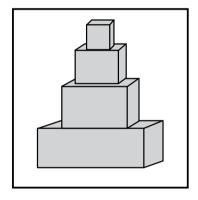
В.



C.



D.

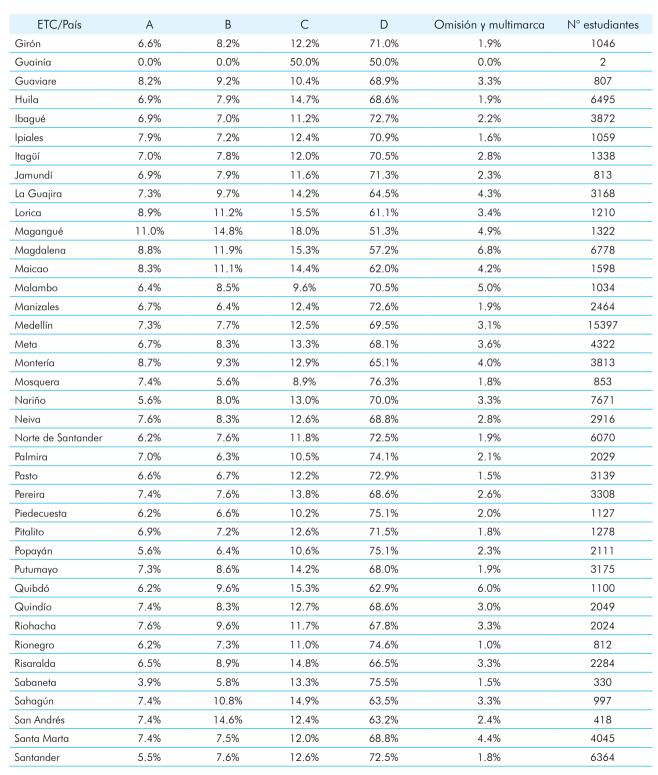


• Estructura

Competencia	Razonamiento y argumentación
Componente	Geométrico - métrico
Afirmación	Ordenar objetos bidimensionales y tridimensionales de acuerdo con atributos medibles.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	7.4%	9.1%	14.5%	66.3%	2.8%	800
Antioquia	6.8%	9.2%	13.8%	67.0%	3.2%	22998
Apartadó	8.1%	11.6%	13.3%	63.0%	4.1%	1358
Arauca	7.0%	7.9%	12.5%	70.1%	2.5%	2079
Armenia	7.3%	8.8%	14.0%	68.9%	1.0%	1915
Atlántico	8.7%	9.5%	13.9%	62.8%	5.2%	4465
Barrancabermeja	7.2%	8.9%	13.3%	67.4%	3.2%	1796
Barranquilla	6.7%	7.9%	12.4%	69.7%	3.3%	7800
Bello	7.0%	7.5%	12.0%	71.6%	1.9%	2933
Bogotá, D.C.	6.5%	5.9%	9.5%	75.0%	3.0%	47936
Bolívar	9.9%	12.6%	16.1%	55.2%	6.2%	8304
Boyacá	7.6%	8.9%	14.2%	67.4%	1.9%	6892
Bucaramanga	6.8%	6.7%	10.1%	74.6%	1.8%	3830
Buenaventura	7.5%	8.0%	13.1%	68.0%	3.4%	2848
Buga	5.8%	5.4%	12.7%	71.7%	4.5%	822
Caldas	6.6%	8.5%	14.5%	68.3%	2.1%	4508
Cali	6.8%	6.1%	11.5%	72.8%	2.8%	14474
Caquetá	6.5%	8.8%	14.0%	68.4%	2.4%	2765
Cartagena	6.8%	8.6%	10.4%	70.3%	3.9%	8114
Cartago	7.9%	8.8%	11.2%	68.4%	3.7%	811
Casanare	6.0%	8.4%	14.1%	68.4%	3.1%	2226
Cauca	6.2%	8.0%	13.3%	68.7%	3.8%	9635
Cesar	6.4%	9.4%	14.3%	66.2%	3.7%	6652
Chocó	8.6%	13.0%	15.1%	56.9%	6.5%	3467
Chía	5.3%	4.3%	11.4%	77.0%	2.0%	961
Ciénaga	7.2%	7.8%	10.6%	69.3%	5.2%	1144
Cundinamarca	5.8%	6.7%	10.9%	74.5%	2.1%	11911
Córdoba	8.6%	10.7%	14.6%	61.7%	4.3%	9883
Cúcuta	7.9%	7.7%	10.7%	71.9%	1.8%	5554
Dosquebradas	8.0%	8.0%	13.6%	67.1%	3.3%	1196
Duitama	4.9%	6.5%	10.6%	77.4%	0.6%	1001
Envigado	5.8%	5.6%	9.6%	77.2%	1.8%	989
Facatativá	5.5%	5.3%	9.6%	76.1%	3.5%	1083
Florencia	8.4%	8.1%	13.5%	67.4%	2.6%	1576
Floridablanca	8.2%	5.4%	10.7%	73.9%	1.9%	1916
Fusagasugá	8.4%	7.5%	9.5%	71.2%	3.4%	1029
Girardot	9.6%	9.4%	9.7%	67.7%	3.5%	688

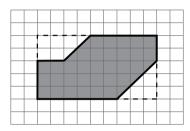


ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.1%	8.7%	11.7%	68.3%	3.3%	2577
Soacha	6.3%	6.5%	9.3%	76.3%	1.6%	4049
Sogamoso	7.5%	6.9%	11.0%	73.9%	0.7%	1118
Soledad	7.4%	7.7%	10.4%	72.7%	1.8%	3865
Sucre	9.2%	12.3%	15.6%	58.8%	4.2%	6081
Tolima	6.5%	9.5%	13.6%	67.5%	3.0%	7516
Tuluá	7.0%	6.5%	12.0%	71.9%	2.6%	1638
Tumaco	8.1%	10.2%	13.5%	58.0%	10.2%	2161
Tunja	6.7%	5.2%	10.1%	76.6%	1.5%	1288
Turbo	9.1%	13.5%	15.9%	55.7%	5.8%	1474
Uribia	8.6%	14.4%	12.9%	55.6%	8.5%	729
Valle del Cauca	7.1%	8.1%	13.1%	68.4%	3.3%	6459
Valledupar	6.1%	8.4%	11.5%	69.7%	4.3%	3519
Vaupés	0.0%	0.0%	0.0%	40.0%	60.0%	5
Vichada	6.3%	6.3%	15.5%	68.5%	3.5%	543
Villavicencio	6.8%	7.2%	10.8%	73.6%	1.7%	4132
Yopal	8.4%	6.2%	12.6%	70.1%	2.6%	1346
Yumbo	7.4%	8.7%	12.4%	68.4%	3.1%	933
Zipaquirá	5.3%	5.5%	9.5%	78.1%	1.6%	987
Colombia	7.1%	8.1%	12.4%	69.2%	3.2%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

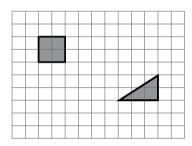
• Pregunta 29.

Karina está armando un rectángulo y le faltaron dos piezas.

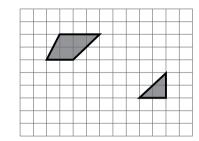


¿Cuáles piezas le faltaron?

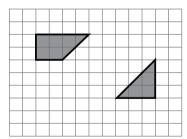
Α.



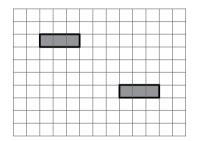
В.



C.



D.

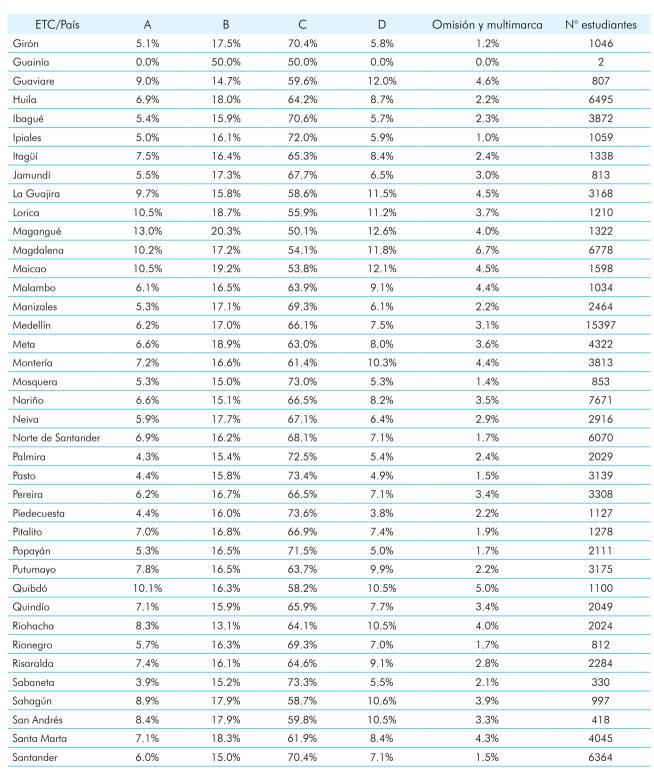


• Estructura

Competencia	Planteamiento y resolución de problemas
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	С

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	9.0%	14.3%	59.5%	13.4%	3.9%	800
Antioquia	7.8%	16.4%	62.9%	9.7%	3.2%	22998
Apartadó	8.3%	17.1%	59.6%	10.8%	4.3%	1358
Arauca	5.9%	16.1%	66.5%	8.9%	2.5%	2079
Armenia	6.3%	15.9%	69.1%	7.4%	1.3%	1915
Atlántico	7.4%	19.0%	59.2%	8.8%	5.6%	4465
Barrancabermeja	6.5%	15.9%	67.8%	6.8%	3.0%	1796
Barranquilla	6.4%	17.3%	65.8%	7.0%	3.4%	7800
Bello	5.8%	16.9%	68.3%	7.3%	1.6%	2933
Bogotá, D.C.	4.5%	15.6%	72.1%	4.7%	3.1%	47936
Bolívar	11.3%	18.6%	51.2%	12.6%	6.4%	8304
Boyacá	7.8%	18.0%	63.2%	9.0%	2.0%	6892
Bucaramanga	4.6%	14.7%	74.1%	4.5%	2.1%	3830
Buenaventura	7.8%	16.2%	63.8%	8.8%	3.4%	2848
Buga	5.1%	16.1%	69.5%	5.1%	4.3%	822
Caldas	7.0%	17.0%	64.7%	9.2%	2.1%	4508
Cali	5.0%	15.9%	70.5%	5.8%	2.8%	14474
Caquetá	8.8%	15.3%	62.4%	11.1%	2.4%	2765
Cartagena	6.2%	17.1%	64.4%	8.0%	4.2%	8114
Cartago	5.1%	17.9%	66.6%	6.9%	3.6%	811
Casanare	6.8%	17.4%	64.6%	7.9%	3.3%	2226
Cauca	7.4%	15.2%	63.8%	9.7%	3.9%	9635
Cesar	7.8%	16.1%	63.3%	9.2%	3.6%	6652
Chocó	12.2%	16.1%	49.5%	15.4%	6.8%	3467
Chía	5.2%	16.8%	71.0%	5.0%	2.1%	961
Ciénaga	7.3%	16.6%	63.9%	7.0%	5.2%	1144
Cundinamarca	5.9%	16.0%	69.9%	6.1%	2.1%	11911
Córdoba	10.8%	17.5%	55.4%	12.0%	4.2%	9883
Cúcuta	5.7%	17.1%	70.0%	5.4%	1.7%	5554
Dosquebradas	5.8%	14.4%	69.1%	7.0%	3.7%	1196
Duitama	4.7%	12.3%	78.5%	3.7%	0.8%	1001
Envigado	4.0%	15.5%	75.2%	4.0%	1.2%	989
Facatativá	5.9%	15.8%	70.5%	5.2%	2.6%	1083
Florencia	5.9%	17.9%	65.0%	8.4%	2.8%	1576
Floridablanca	4.5%	13.9%	75.6%	3.9%	2.1%	1916
Fusagasugá	4.9%	18.1%	69.0%	5.9%	2.1%	1029



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	6.7%	18.2%	63.8%	8.3%	3.1%	2577
Soacha	4.1%	16.3%	73.0%	5.3%	1.3%	4049
Sogamoso	5.2%	18.1%	70.3%	5.7%	0.7%	1118
Soledad	5.5%	16.4%	68.9%	7.2%	2.0%	3865
Sucre	11.0%	18.8%	53.1%	12.7%	4.4%	6081
Tolima	7.8%	17.1%	62.8%	9.3%	3.0%	7516
Tuluá	5.1%	15.5%	69.9%	6.8%	2.7%	1638
Tumaco	10.4%	14.8%	54.1%	11.3%	9.4%	2161
Tunja	5.0%	13.9%	74.5%	5.0%	1.6%	1288
Turbo	10.7%	19.8%	49.3%	15.1%	5.2%	1474
Uribia	15.1%	20.2%	41.7%	15.0%	8.1%	729
Valle del Cauca	5.9%	16.3%	67.1%	7.3%	3.5%	6459
Valledupar	6.1%	14.7%	66.1%	8.8%	4.3%	3519
Vaupés	0.0%	20.0%	20.0%	0.0%	60.0%	5
Vichada	8.3%	14.9%	58.9%	14.0%	3.9%	543
Villavicencio	4.7%	15.5%	72.8%	5.2%	1.8%	4132
Yopal	4.2%	15.1%	72.1%	6.1%	2.5%	1346
Yumbo	5.4%	17.3%	65.3%	9.3%	2.8%	933
Zipaquirá	5.0%	16.1%	73.6%	4.3%	1.1%	987
Colombia	6.8%	16.5%	65.6%	7.9%	3.2%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 30.

Daniel organiza sus zapatos y los de sus hermanos. Observa las tallas.



La menor y la mayor talla son

22 y 30 A.

B.

22 y 31 23 y 29 C.

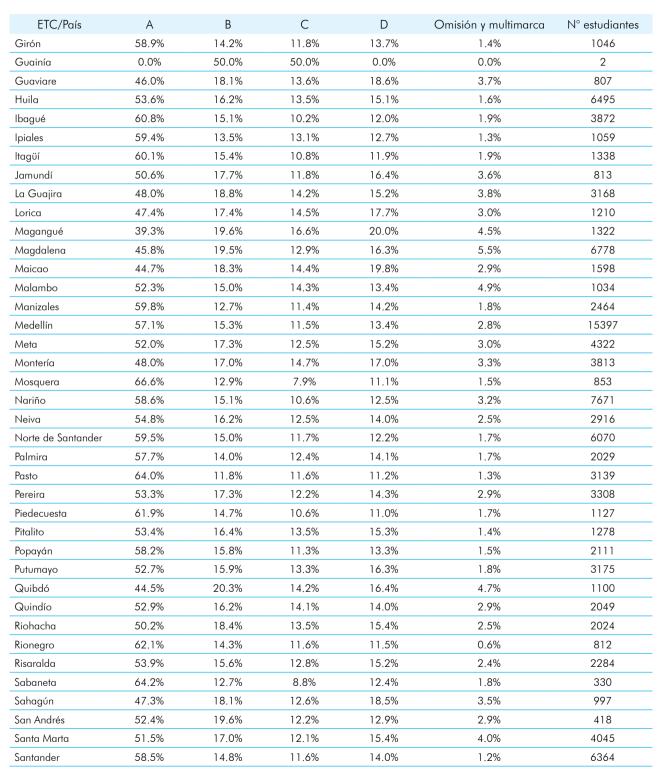
23 y 30

• Estructura

Competencia	Comunicación, representación y modelación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

Amazonos 43.3% 20.3% 14.8% 18.4% 2.8% 22998 Antioquio 53.8% 16.9% 11.9% 14.7% 2.8% 22998 Aportadó 50.7% 17.0% 13.5% 14.7% 2.8% 22998 Arouco 52.0% 18.2% 13.0% 14.8% 2.0% 2079 Amenia 58.4% 15.0% 12.1% 13.3% 1.3% 1465 Alfaricio 48.0% 19.9% 12.5% 15.3% 4.3% 4465 Barrancabermeja 53.4% 17.7% 12.4% 15.5% 2.5% 7800 Berrancabermeja 53.4% 17.7% 12.4% 15.5% 2.5% 7800 Berrancabermeja 53.4% 15.4% 10.9% 11.9% 1.6% 2.9% 47936 Berrancabermeja 60.1% 15.4% 10.9% 11.4% 2.9% 47936 Berrancabermeja 61.1% 15.4% 10.9% 11.4% 2.9% 47936	ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Apartodó 50.7% 17.0% 13.5% 15.3% 3.4% 1358 Arauca 52.0% 18.2% 13.0% 14.8% 2.0% 2079 Armenia 58.4% 15.0% 12.1% 13.3% 1.3% 1915 Alfántico 48.0% 19.9% 12.5% 15.3% 4.3% 4465 Barrancabermeja 53.4% 17.7% 12.4% 13.9% 2.6% 1796 Barranquilla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Begotó, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolvar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Beyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buera carmanga	Amazonas	43.3%	20.3%	14.8%	18.4%	3.4%	800
Arauca 52.0% 18.2% 13.0% 14.8% 2.0% 2079 Armenia 58.4% 15.0% 12.1% 13.3% 1.3% 1915 Aflántico 48.0% 19.9% 12.5% 15.3% 4.3% 4465 Barrancaberieja 53.4% 17.7% 12.4% 13.9% 2.6% 1796 Barrancapilla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogota, D.C. 63.0% 12.8% 9.9% 11.4% 2.9% 47936 Boyaca 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3.0% 2848	Antioquia	53.8%	16.9%	11.9%	14.7%	2.8%	22998
Armenia 58.4% 15.0% 12.1% 13.3% 1.3% 1915 Atlóntico 48.0% 19.9% 12.5% 15.3% 4.3% 4465 Barrancabermeja 53.4% 17.7% 12.4% 13.9% 2.6% 1796 Barranquilla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogotó, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolivar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaromanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Bucaromanga 51.5% 15.9% 11.4% 13.9% 3.9% 2848 Buga 55.5% 15.9% 11.4% 13.9% 3.9% 822 Caldas <t< td=""><td>Apartadó</td><td>50.7%</td><td>17.0%</td><td>13.5%</td><td>15.3%</td><td>3.4%</td><td>1358</td></t<>	Apartadó	50.7%	17.0%	13.5%	15.3%	3.4%	1358
Atlántico 48.0% 19.9% 12.5% 15.3% 4.3% 4465 Barrancabermeja 53.4% 17.7% 12.4% 13.9% 2.6% 1796 Barrancylla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogott, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolivar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaromentura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Caj 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caj 59.5% <td>Arauca</td> <td>52.0%</td> <td>18.2%</td> <td>13.0%</td> <td>14.8%</td> <td>2.0%</td> <td>2079</td>	Arauca	52.0%	18.2%	13.0%	14.8%	2.0%	2079
Borrancobermeja 53.4% 17.7% 12.4% 13.9% 2.6% 1796 Barranquilla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogotá, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolvar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caj 55.5%<	Armenia	58.4%	15.0%	12.1%	13.3%	1.3%	1915
Borranquilla 51.3% 18.1% 12.6% 15.5% 2.5% 7800 Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogotá, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolivar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caqueté 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagen 55.9% <td>Atlántico</td> <td>48.0%</td> <td>19.9%</td> <td>12.5%</td> <td>15.3%</td> <td>4.3%</td> <td>4465</td>	Atlántico	48.0%	19.9%	12.5%	15.3%	4.3%	4465
Bello 60.1% 15.4% 10.9% 11.9% 1.6% 2933 Bogotó, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolivar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.4% 13.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Casarare 49.2%	Barrancabermeja	53.4%	17.7%	12.4%	13.9%	2.6%	1796
Bogotó, D.C. 63.0% 12.8% 9.8% 11.4% 2.9% 47936 Bolívar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buena conventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartagena 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0%<	Barranquilla	51.3%	18.1%	12.6%	15.5%	2.5%	7800
Bolivar 41.7% 19.3% 14.7% 18.8% 5.5% 8304 Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5%	Bello	60.1%	15.4%	10.9%	11.9%	1.6%	2933
Boyacá 52.4% 15.9% 13.6% 16.4% 1.7% 6892 Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldos 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caqueté 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 811 Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 8652 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% <	Bogotá, D.C.	63.0%	12.8%	9.8%	11.4%	2.9%	47936
Bucaramanga 61.3% 13.8% 10.8% 12.6% 1.5% 3830 Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartagea 56.1% 15.9% 11.0% 14.1% 3.2% 811 Cartagea 55.9% 15.9% 11.0% 14.1% 3.2% 811 Cartagea 55.9% 15.9% 11.0% 13.6% 3.3% 9635 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5%	Bolívar	41.7%	19.3%	14.7%	18.8%	5.5%	8304
Buenaventura 52.0% 19.7% 11.4% 13.9% 3.0% 2848 Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 811 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 811 Cartagena 56.1% 15.4% 11.0% 14.1% 3.2% 811 Cartagena 56.1% 15.9% 11.0% 14.1% 3.2% 826 Cauca 53.0%	Boyacá	52.4%	15.9%	13.6%	16.4%	1.7%	6892
Buga 55.5% 15.9% 11.8% 12.9% 3.9% 822 Caldas 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7%	Bucaramanga	61.3%	13.8%	10.8%	12.6%	1.5%	3830
Coldos 53.5% 16.2% 12.6% 15.6% 2.0% 4508 Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cuidamarca 60.3% 14.2	Buenaventura	52.0%	19.7%	11.4%	13.9%	3.0%	2848
Cali 59.5% 14.9% 10.6% 12.5% 2.6% 14474 Caquetá 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartage 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1114 Cudiamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18	Buga	55.5%	15.9%	11.8%	12.9%	3.9%	822
Caqueté 56.3% 16.1% 11.8% 13.6% 2.2% 2765 Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cartage 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocé 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% <td< td=""><td>Caldas</td><td>53.5%</td><td>16.2%</td><td>12.6%</td><td>15.6%</td><td>2.0%</td><td>4508</td></td<>	Caldas	53.5%	16.2%	12.6%	15.6%	2.0%	4508
Cartagena 56.1% 15.4% 11.5% 13.8% 3.3% 8114 Cardago 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2%	Cali	59.5%	14.9%	10.6%	12.5%	2.6%	14474
Cartago 55.9% 15.9% 11.0% 14.1% 3.2% 811 Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Envigado 73.7%	Caquetá	56.3%	16.1%	11.8%	13.6%	2.2%	2765
Casanare 49.2% 18.3% 13.1% 16.5% 2.8% 2226 Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% <	Cartagena	56.1%	15.4%	11.5%	13.8%	3.3%	8114
Cauca 53.0% 19.1% 11.0% 13.6% 3.3% 9635 Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% <t< td=""><td>Cartago</td><td>55.9%</td><td>15.9%</td><td>11.0%</td><td>14.1%</td><td>3.2%</td><td>811</td></t<>	Cartago	55.9%	15.9%	11.0%	14.1%	3.2%	811
Cesar 50.5% 18.5% 12.6% 15.2% 3.2% 6652 Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1%	Casanare	49.2%	18.3%	13.1%	16.5%	2.8%	2226
Chocó 44.7% 22.5% 12.3% 15.6% 4.9% 3467 Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 59.2% <td>Cauca</td> <td>53.0%</td> <td>19.1%</td> <td>11.0%</td> <td>13.6%</td> <td>3.3%</td> <td>9635</td>	Cauca	53.0%	19.1%	11.0%	13.6%	3.3%	9635
Chía 67.5% 11.2% 7.7% 12.2% 1.4% 961 Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2%	Cesar	50.5%	18.5%	12.6%	15.2%	3.2%	6652
Ciénaga 54.6% 17.7% 10.3% 12.6% 4.7% 1144 Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Chocó	44.7%	22.5%	12.3%	15.6%	4.9%	3467
Cundinamarca 60.3% 14.2% 11.1% 12.4% 2.0% 11911 Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Chía	67.5%	11.2%	7.7%	12.2%	1.4%	961
Córdoba 47.1% 18.4% 13.9% 17.0% 3.6% 9883 Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Ciénaga	54.6%	17.7%	10.3%	12.6%	4.7%	1144
Cúcuta 56.6% 15.4% 12.3% 14.1% 1.5% 5554 Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Cundinamarca	60.3%	14.2%	11.1%	12.4%	2.0%	11911
Dosquebradas 56.2% 14.7% 12.7% 14.0% 2.4% 1196 Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Córdoba	47.1%	18.4%	13.9%	17.0%	3.6%	9883
Duitama 73.1% 8.8% 8.2% 9.4% 0.5% 1001 Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Cúcuta	56.6%	15.4%	12.3%	14.1%	1.5%	5554
Envigado 73.7% 10.6% 6.7% 7.7% 1.3% 989 Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Dosquebradas	56.2%	14.7%	12.7%	14.0%	2.4%	1196
Facatativá 59.8% 13.4% 11.8% 12.5% 2.5% 1083 Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Duitama	73.1%	8.8%	8.2%	9.4%	0.5%	1001
Florencia 51.1% 18.0% 12.7% 15.6% 2.6% 1576 Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Envigado	73.7%	10.6%	6.7%	7.7%	1.3%	989
Floridablanca 63.1% 13.2% 9.3% 12.8% 1.6% 1916 Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Facatativá	59.8%	13.4%	11.8%	12.5%	2.5%	1083
Fusagasugá 59.2% 15.4% 11.5% 12.1% 1.8% 1029	Florencia	51.1%	18.0%	12.7%	15.6%	2.6%	1576
<u> </u>	Floridablanca	63.1%	13.2%	9.3%	12.8%	1.6%	1916
Girardot 51.6% 18.0% 12.2% 16.1% 2.0% 688	Fusagasugá	59.2%	15.4%	11.5%	12.1%	1.8%	1029
	Girardot	51.6%	18.0%	12.2%	16.1%	2.0%	688



ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	51.0%	17.0%	13.6%	15.3%	3.0%	2577
Soacha	61.7%	12.7%	11.3%	12.9%	1.4%	4049
Sogamoso	63.3%	14.1%	9.1%	12.6%	0.8%	1118
Soledad	56.3%	17.8%	11.8%	12.7%	1.4%	3865
Sucre	44.3%	19.6%	15.0%	17.6%	3.5%	6081
Tolima	53.1%	16.8%	12.0%	15.5%	2.7%	7516
Tuluá	59.2%	12.6%	12.6%	13.6%	2.1%	1638
Tumaco	42.9%	21.8%	12.9%	14.1%	8.3%	2161
Tunja	64.1%	13.1%	9.5%	11.7%	1.6%	1288
Turbo	44.7%	19.1%	14.7%	16.7%	4.8%	1474
Uribia	38.0%	21.4%	14.0%	19.8%	6.9%	729
Valle del Cauca	53.4%	16.2%	12.8%	14.7%	2.9%	6459
Valledupar	52.6%	17.0%	11.9%	15.1%	3.5%	3519
Vaupés	20.0%	0.0%	0.0%	20.0%	60.0%	5
Vichada	40.3%	24.5%	13.8%	17.9%	3.5%	543
Villavicencio	59.6%	14.4%	11.4%	13.1%	1.5%	4132
Yopal	56.6%	14.3%	11.6%	15.2%	2.2%	1346
Yumbo	53.1%	17.9%	12.0%	14.8%	2.3%	933
Zipaquirá	63.8%	12.3%	10.0%	12.7%	1.2%	987
Colombia	55.3%	16.0%	11.9%	14.1%	2.8%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 31.

Estas son las frutas preferidas de 11 niños.

Fresa, banano, manzana, piña, manzana, manzana, manzana, manzana, manzana, uva.

¿Cuál es la fruta preferida por la mayoría de niños de este grupo?

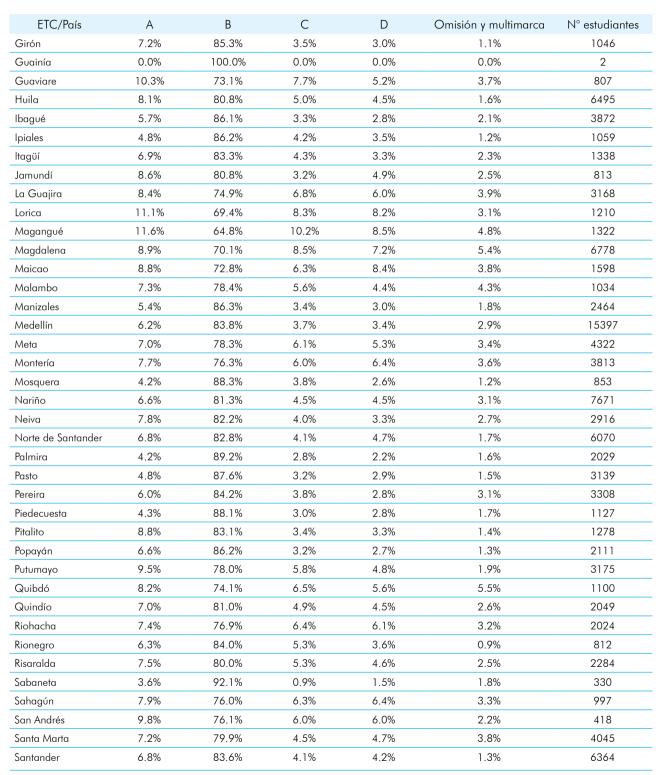
- A. Fresa.
- B. Manzana.
- C. Piña.
- D. Uva.

• Estructura

Competencia	Razonamiento y argumentación
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Mínimo
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

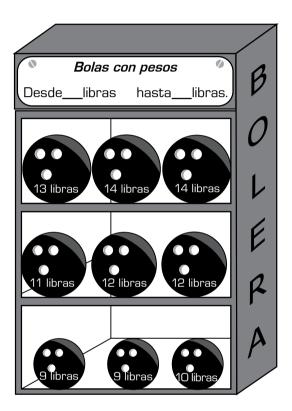
ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	10.1%	71.6%	6.6%	7.6%	4.0%	800
Antioquia	7.0%	80.4%	5.4%	4.5%	2.8%	22998
Apartadó	9.1%	77.0%	5.3%	4.9%	3.7%	1358
Arauca	7.5%	80.6%	5.2%	4.3%	2.4%	2079
Armenia	7.4%	83.6%	4.6%	3.0%	1.4%	1915
Atlántico	8.1%	74.4%	6.7%	6.1%	4.6%	4465
Barrancabermeja	6.8%	83.0%	4.5%	3.3%	2.3%	1796
Barranquilla	7.4%	81.3%	4.5%	4.4%	2.5%	7800
Bello	5.7%	86.7%	3.4%	2.2%	1.9%	2933
Bogotá, D.C.	4.8%	86.7%	3.0%	2.5%	3.0%	47936
Bolívar	10.3%	66.4%	9.9%	8.2%	5.2%	8304
Boyacá	7.9%	79.0%	5.8%	5.3%	2.0%	6892
Bucaramanga	5.4%	87.5%	2.7%	2.6%	1.9%	3830
Buenaventura	7.4%	80.3%	4.9%	4.7%	2.6%	2848
Buga	3.8%	86.7%	3.3%	2.1%	4.1%	822
Caldas	6.2%	83.0%	4.6%	4.1%	2.1%	4508
Cali	6.1%	85.9%	2.9%	2.5%	2.6%	14474
Caquetá	8.1%	79.2%	6.3%	4.5%	1.9%	2765
Cartagena	7.7%	79.3%	4.9%	4.6%	3.6%	8114
Cartago	6.7%	83.8%	3.6%	3.0%	3.0%	811
Casanare	8.5%	76.8%	5.6%	5.6%	3.4%	2226
Cauca	8.4%	76.4%	6.5%	5.4%	3.3%	9635
Cesar	8.0%	78.2%	4.9%	5.9%	3.1%	6652
Chocó	9.0%	66.5%	10.2%	9.1%	5.1%	3467
Chía	4.3%	89.1%	3.4%	1.7%	1.6%	961
Ciénaga	6.3%	77.4%	5.4%	5.7%	5.2%	1144
Cundinamarca	6.0%	84.8%	3.7%	3.3%	2.2%	11911
Córdoba	8.8%	72.2%	8.2%	7.1%	3.8%	9883
Cúcuta	6.4%	85.1%	3.5%	3.6%	1.5%	5554
Dosquebradas	5.4%	83.5%	4.7%	3.3%	3.1%	1196
Duitama	3.4%	91.8%	2.2%	2.2%	0.4%	1001
Envigado	4.4%	90.8%	2.0%	1.2%	1.5%	989
Facatativá	5.3%	86.3%	3.0%	2.9%	2.6%	1083
Florencia	8.0%	79.6%	5.5%	3.9%	2.9%	1576
Floridablanca	4.7%	88.5%	2.8%	2.2%	1.7%	1916
Fusagasugá	6.7%	84.6%	3.3%	2.9%	2.4%	1029
Girardot	7.3%	81.7%	3.8%	3.6%	3.6%	688



ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	6.3%	80.4%	4.5%	5.5%	3.2%	2577
Soacha	4.9%	87.9%	3.7%	2.2%	1.3%	4049
Sogamoso	4.8%	88.6%	2.9%	2.8%	0.9%	1118
Soledad	7.6%	82.3%	4.5%	4.0%	1.6%	3865
Sucre	8.9%	71.3%	8.8%	7.4%	3.6%	6081
Tolima	7.7%	78.2%	6.0%	5.5%	2.6%	7516
Tuluá	5.2%	85.8%	3.1%	3.8%	2.0%	1638
Tumaco	9.1%	65.5%	8.5%	8.8%	8.1%	2161
Tunja	4.5%	87.5%	3.6%	2.7%	1.6%	1288
Turbo	10.4%	67.9%	8.6%	8.1%	5.0%	1474
Uribia	10.8%	62.6%	10.3%	8.2%	8.1%	729
Valle del Cauca	6.4%	82.1%	4.9%	3.7%	2.9%	6459
Valledupar	7.9%	80.0%	3.8%	4.3%	4.1%	3519
Vaupés	0.0%	40.0%	0.0%	0.0%	60.0%	5
Vichada	8.3%	71.6%	8.8%	7.0%	4.2%	543
Villavicencio	5.8%	86.5%	3.0%	3.0%	1.7%	4132
Yopal	6.8%	83.5%	4.0%	3.3%	2.4%	1346
Yumbo	7.9%	81.2%	4.4%	4.0%	2.5%	933
Zipaquirá	5.1%	88.8%	2.1%	2.6%	1.4%	987
Colombia	6.9%	81.1%	4.8%	4.3%	2.9%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 32.



El aviso correcto que debe tener el estante es

- A. **Bolas con pesos**Desde <u>9</u> libras hasta <u>14</u> libras.
- B. Bolas con pesos

 Desde 10 libras hasta 14 libras.
- C. Bolas con pesos

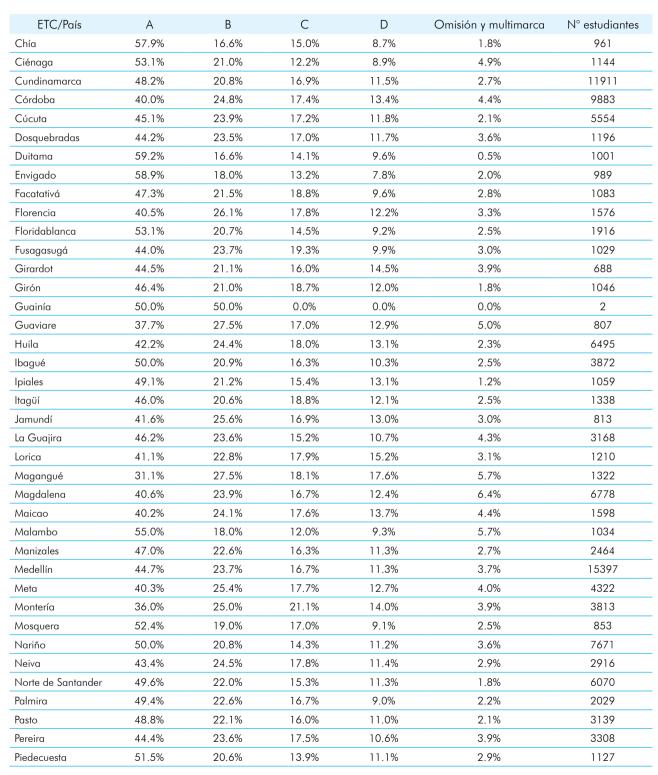
 Desde 10 libras hasta 13 libras.
- D. **Bolas con pesos**Desde <u>9</u> libras hasta <u>13</u> libras.

• Estructura

Competencia	Razonamiento y argumentación
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Avanzado
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	36.8%	26.1%	18.0%	14.1%	5.0%	800
Antioquia	43.7%	24.3%	16.6%	12.0%	3.3%	22998
Apartadó	40.2%	23.6%	19.5%	12.7%	4.1%	1358
Arauca	43.2%	24.0%	17.5%	12.3%	3.1%	2079
Armenia	44.8%	22.8%	18.6%	11.8%	2.0%	1915
Atlántico	44.1%	22.5%	16.8%	11.2%	5.3%	4465
Barrancabermeja	46.9%	23.7%	15.8%	10.5%	3.1%	1796
Barranquilla	44.8%	23.7%	17.2%	11.1%	3.3%	7800
Bello	46.9%	22.5%	17.1%	11.4%	2.1%	2933
Bogotá, D.C.	50.9%	19.5%	16.3%	9.8%	3.5%	47936
Bolívar	34.3%	25.2%	20.0%	14.4%	6.0%	8304
Boyacá	40.1%	24.0%	19.5%	13.9%	2.5%	6892
Bucaramanga	52.3%	20.8%	15.4%	9.0%	2.5%	3830
Buenaventura	52.6%	21.7%	13.9%	8.5%	3.3%	2848
Buga	49.1%	19.2%	18.1%	9.4%	4.1%	822
Caldas	44.4%	22.7%	18.2%	12.3%	2.5%	4508
Cali	52.1%	20.6%	14.9%	9.2%	3.1%	14474
Caquetá	47.3%	22.4%	15.7%	12.2%	2.5%	2765
Cartagena	49.3%	20.6%	15.4%	10.4%	4.3%	8114
Cartago	43.6%	21.0%	18.9%	12.5%	4.1%	811
Casanare	37.4%	24.3%	21.2%	13.2%	4.0%	2226
Саиса	49.3%	21.6%	14.3%	10.6%	4.2%	9635
Cesar	45.0%	23.0%	16.3%	12.0%	3.6%	6652
Chocó	40.2%	24.7%	17.2%	11.5%	6.4%	3467



ETC/País	Α	В	С	D	Omisión y multimarca	N° estudiantes
Pitalito	44.8%	24.4%	17.8%	11.0%	2.0%	1278
Popayán	51.6%	21.2%	14.9%	10.6%	1.8%	2111
Putumayo	39.2%	25.1%	19.5%	13.4%	2.8%	3175
Quibdó	42.9%	21.7%	16.1%	13.0%	6.3%	1100
Quindío	42.2%	25.6%	18.0%	10.9%	3.3%	2049
Riohacha	43.4%	24.1%	15.6%	12.6%	4.3%	2024
Rionegro	47.8%	21.9%	18.8%	10.1%	1.4%	812
Risaralda	42.7%	24.2%	17.4%	12.9%	2.8%	2284
Sabaneta	61.8%	17.3%	10.3%	7.9%	2.7%	330
Sahagún	37.4%	23.2%	21.7%	13.8%	3.9%	997
San Andrés	39.7%	24.9%	21.1%	12.0%	2.4%	418
Santa Marta	46.3%	21.8%	15.8%	11.6%	4.4%	4045
Santander	49.9%	21.4%	15.1%	11.7%	1.9%	6364
Sincelejo	44.5%	22.0%	17.5%	12.1%	3.8%	2577
Soacha	49.4%	21.7%	16.8%	10.5%	1.7%	4049
Sogamoso	49.6%	22.2%	16.1%	11.2%	1.0%	1118
Soledad	47.6%	23.4%	15.5%	11.6%	1.9%	3865
Sucre	38.0%	25.1%	18.5%	13.7%	4.7%	6081
Tolima	43.6%	24.1%	16.8%	12.4%	3.2%	7516
Tuluá	48.5%	22.8%	15.1%	10.7%	2.9%	1638
Tumaco	37.2%	23.2%	17.8%	12.7%	9.1%	2161
Tunja	52.3%	20.3%	14.8%	10.9%	1.7%	1288
Turbo	35.4%	24.3%	20.0%	14.7%	5.6%	1474
Uribia	29.6%	30.6%	19.5%	12.2%	8.1%	729
Valle del Cauca	44.8%	23.2%	17.1%	11.4%	3.5%	6459
Valledupar	46.9%	21.6%	16.4%	10.5%	4.6%	3519
Vaupés	0.0%	20.0%	20.0%	0.0%	60.0%	5
Vichada	38.1%	27.8%	16.9%	12.2%	5.0%	543
Villavicencio	47.4%	22.3%	17.7%	10.5%	2.1%	4132
Yopal	39.4%	24.2%	18.9%	14.5%	3.0%	1346
Yumbo	41.5%	23.2%	16.8%	15.1%	3.4%	933
Zipaquirá	56.3%	17.8%	14.3%	9.5%	2.0%	987
Colombia	45.9%	22.5%	16.7%	11.4%	3.5%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 33.

Hugo y Pedro elaboraron una lista de las actividades que realizaron durante las vacaciones.

- Jugar fútbol
- Nadar
- Correr
- Montar bicicleta
- Ver televisión





- Nadar

- Ver televisión
- Correr
- Jugar fútbol

¿Cuál es la diferencia entre las actividades que realizaron Hugo y Pedro?

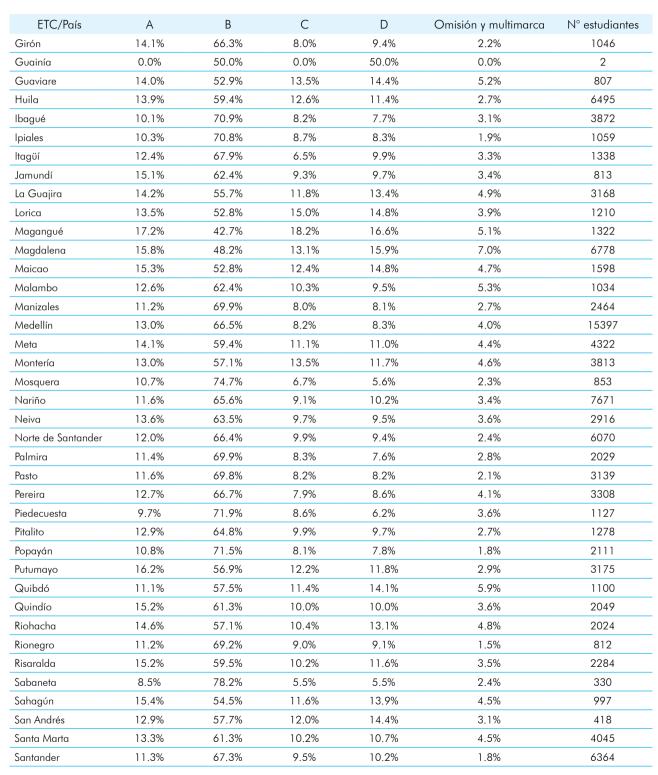
- A. Que Hugo jugó fútbol y Pedro no.
- B. Que Hugo montó bicicleta y Pedro no.
- C. Que Pedro corrió y Hugo no.
- D. Que Pedro vio televisión y Hugo no.

Estructura

Competencia	Comunicación, representación y modelación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan
Nivel de desempeño	Satisfactorio
Respuesta Correcta	В

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Amazonas	14.4%	52.6%	14.4%	13.6%	5.0%	800
Antioquia	14.1%	60.1%	10.9%	11.2%	3.7%	22998
Apartadó	15.1%	55.7%	13.3%	11.1%	4.8%	1358
Arauca	13.9%	60.6%	11.3%	11.0%	3.1%	2079
Armenia	12.8%	69.3%	7.8%	8.2%	1.8%	1915
Atlántico	13.6%	56.6%	10.4%	13.4%	6.0%	4465
Barrancabermeja	13.0%	65.8%	8.9%	8.6%	3.7%	1796
Barranquilla	12.8%	63.6%	10.3%	9.9%	3.4%	7800
Bello	12.2%	69.9%	7.5%	8.1%	2.3%	2933
Bogotá, D.C.	9.7%	73.1%	6.8%	6.6%	3.7%	47936
Bolívar	17.0%	43.6%	15.1%	17.0%	7.2%	8304
Boyacá	14.4%	58.9%	12.3%	11.6%	2.8%	6892
Bucaramanga	10.4%	73.3%	7.0%	6.7%	2.6%	3830
Buenaventura	12.5%	61.2%	10.8%	11.9%	3.6%	2848
Buga	11.6%	69.2%	7.3%	8.0%	3.9%	822
Caldas	13.3%	63.1%	9.9%	10.8%	2.9%	4508
Cali	10.8%	71.9%	6.9%	7.1%	3.4%	14474
Caquetá	12.9%	60.9%	12.2%	11.4%	2.5%	2765
Cartagena	12.6%	62.2%	9.9%	10.8%	4.5%	8114
Cartago	13.9%	61.7%	9.1%	11.0%	4.3%	811
Casanare	15.5%	56.0%	12.3%	12.4%	3.9%	2226
Саиса	12.5%	61.5%	10.6%	11.5%	3.9%	9635
Cesar	12.9%	59.2%	11.2%	12.6%	4.1%	6652
Chocó	15.6%	48.3%	13.1%	16.7%	6.3%	3467
Chía	8.3%	74.6%	7.5%	6.8%	2.8%	961
Ciénaga	12.8%	63.1%	9.4%	9.4%	5.2%	1144
Cundinamarca	10.6%	69.3%	8.5%	8.6%	3.0%	11911
Córdoba	15.1%	51.3%	13.5%	15.3%	4.8%	9883
Cúcuta	12.9%	65.5%	10.1%	9.2%	2.4%	5554
Dosquebradas	10.6%	70.0%	7.5%	7.4%	4.4%	1196
Duitama	8.7%	76.9%	8.2%	5.4%	0.8%	1001
Envigado	8.3%	79.7%	4.6%	5.6%	1.9%	989
Facatativá	9.1%	71.3%	8.6%	7.2%	3.8%	1083
Florencia	13.8%	59.8%	11.7%	10.8%	3.9%	1576
Floridablanca	9.2%	74.8%	7.7%	5.6%	2.7%	1916
Fusagasugá	10.8%	69.6%	7.7%	9.3%	2.6%	1029
Girardot	12.4%	63.4%	10.3%	9.7%	4.2%	688





ETC/País	А	В	С	D	Omisión y multimarca	N° estudiantes
Sincelejo	13.4%	60.3%	11.7%	10.2%	4.4%	2577
Soacha	10.4%	73.3%	6.8%	7.8%	1.7%	4049
Sogamoso	11.0%	72.7%	8.0%	7.1%	1.3%	1118
Soledad	12.9%	65.2%	10.0%	9.6%	2.3%	3865
Sucre	16.0%	49.6%	13.8%	15.8%	4.8%	6081
Tolima	14.3%	58.7%	11.3%	12.3%	3.4%	7516
Tuluá	13.0%	68.3%	8.2%	8.0%	2.6%	1638
Tumaco	14.4%	49.7%	13.0%	13.4%	9.4%	2161
Tunja	7.9%	73.2%	7.8%	8.7%	2.4%	1288
Turbo	17.1%	45.2%	14.6%	16.6%	6.5%	1474
Uribia	15.2%	46.8%	12.5%	17.7%	7.8%	729
Valle del Cauca	13.8%	61.2%	10.2%	10.8%	3.9%	6459
Valledupar	13.3%	62.8%	9.4%	9.9%	4.6%	3519
Vaupés	20.0%	0.0%	20.0%	0.0%	60.0%	5
Vichada	13.6%	52.7%	14.5%	15.5%	3.7%	543
Villavicencio	11.8%	70.2%	7.6%	7.6%	2.7%	4132
Yopal	13.2%	65.8%	8.7%	8.7%	3.7%	1346
Yumbo	16.6%	57.0%	10.8%	11.6%	4.0%	933
Zipaquirá	9.7%	72.7%	8.3%	6.9%	2.3%	987
Colombia	12.6%	63.6%	9.8%	10.2%	3.8%	369417

^{*}Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.





