MATHEMATICAL REASONING

Chapter 17





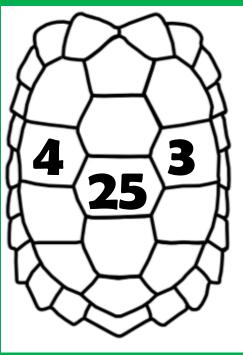
Analogías y Distribuciones



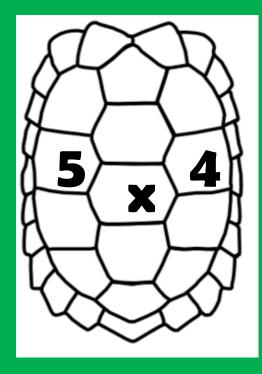


i Atrápame si puedes!









Encuentra el valor de «x»



Este tipo de pregunta tiene por objeto, averiguar la capacidad de las personas para descubrir relaciones operacionales entre determinados números que se les proporcionan como datos, y que una vez encontrada y razonando en forma analógica debe ser aplicada la búsqueda del término desconocido.

Ejem.1: Determinar el valor de «X»

23 (29) 35
$$\rightarrow$$
 (23 + 35)/2 = 29
55 (35) 15 \rightarrow (55 + 15)/2 = 35
10 (X) 24 \rightarrow (10 + 24)/2 = X \rightarrow X = 17



Ejem.2: Determinar el valor de «X»

$$C_1 = 3 \times 5 = 15$$

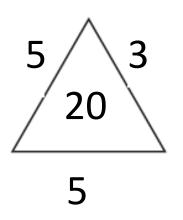
$$C_2 = 9 \times 3 = X$$
 $X = 27$

$$C_3 = 8 \times 4 = 32$$

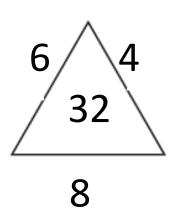
$$C4 = 10 \times 7 = 70$$



Ejem.3: Determinar el valor de «X»



$$Fig1 = (3x5)+5 = 20$$



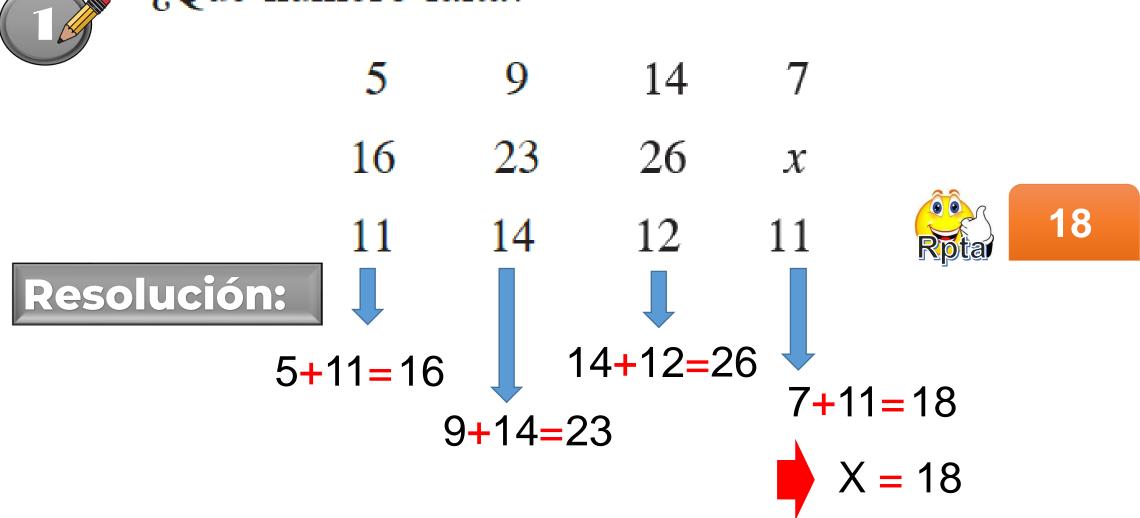
$$Fig2 = (6x4) + 8 = 32$$

=
$$(6x4)+8=32$$
 Fig3 = $(7x6)+10 = X$





¿Qué número falta?







¿Qué número falta?

$$5 5 25 \implies 5 \times 5 = 25$$

$$4 7 28 \implies 4 \times 7 = 28$$

$$8 6 48 \implies 8 \times 6 = 48$$

2 9
$$X \rightarrow 2 \times 9 = 18$$







¿Qué número falta?

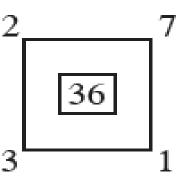
15	7	8	15 - 8 = 7
24	$\boldsymbol{\mathcal{X}}$	6	24 - 6 = 18
35	20	15	35 - 15 = 20
47	38	9	47 - 9 = 38

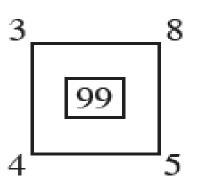


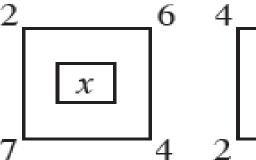


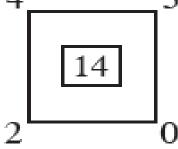


Hallar el valor de X











$$(2+7)x(3+1)=36$$



$$(3+8)x(4+5)=99$$



$$(4+3)x(2+0)=14$$

$$(2+6)x(7+4)=X$$

$$88 = X$$





Halle el número que falta.

$$(4+2+9)-(3+8+1)=3$$

$$(5+3+7)-(2+0+6)=7$$

$$\boldsymbol{\mathcal{X}}$$

$$(9+1+2)-(4+3+0)=X$$



$$X = 5$$

$$(8+0+5)-(1+7+3)=2$$







Halle el número que falta.



$$(2+1)(3+4)=21$$
 $(1+4)(2+3)=25$





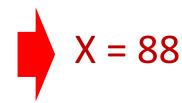






$$(7+4)(4+2)=66$$

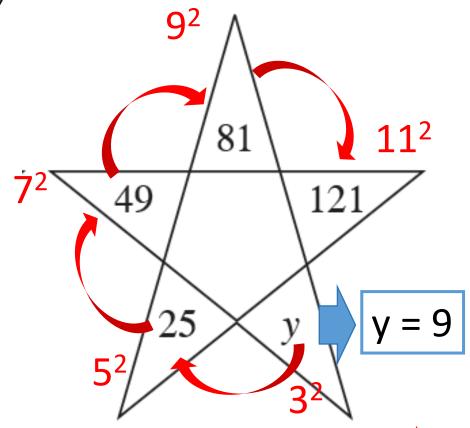
$$(9+2)(5+3)=88$$

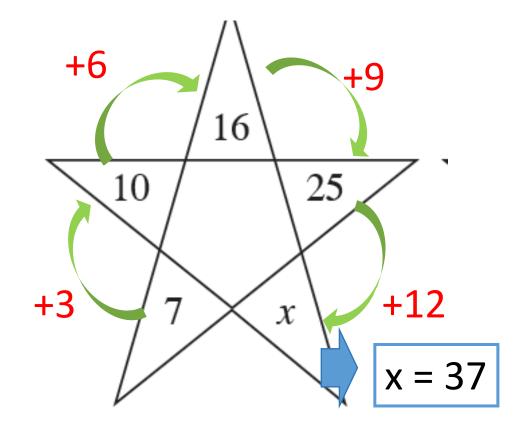


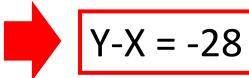




Halle el valor de y-x si x>30 e y<10.







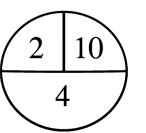


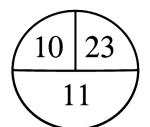
-28

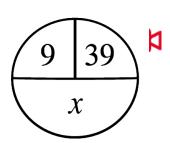
HELICO | PRACTICE



Colocando el siguiente gráfico:

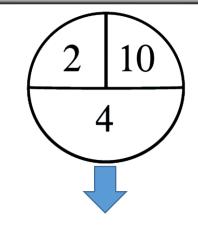




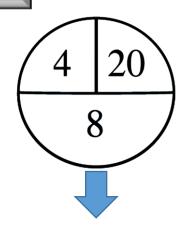


16

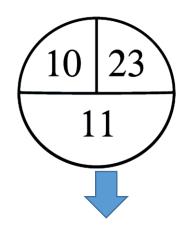
Pepe retó a sus amigos a encontrar el valor de x; ya que él había sido retado en varias oportunidades, saliendo airoso en dichas ocasiones. ¿Podrías responder al reto de Pepe?



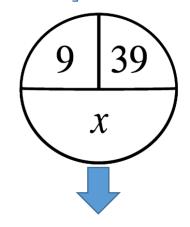
$$(10+2)/3=4$$



$$(20+4)/3=8$$



$$(10+23)/3=11$$



$$(20+4)/3=8$$
 $(10+23)/3=11$ $(9+39)/3=X=16$



