O	u	IZ	ZZ
C:	L		

NAME:

CLASS:

algebra

20 Questions

DATE :

1. El resultado de multiplicar (3x-2)(3x+2) es:

A 
$$9x^2+12x-4$$

B 9x<sup>2</sup> - 4

D  $9x^2+4$ 

2. Opera: 
$$(x^2+5x-2)(4x+3) =$$

A 
$$x^3+23x^2+7x-6$$

B  $4x^3+23x^2+7x-6$ 

C 
$$4x^3+3x^2+7x-6$$

3. Opera y reduce:  $3x(2x^2-4x+2)-(5x^2-7x-8)=$ 

A 
$$6x^3 + 7x^2 - 13x + 8$$

B x<sup>2</sup> - 19x - 2x

C 
$$6x^3 - 17x^2 + 13x + 8$$

D 5x<sup>3</sup> - 19x<sup>2</sup> - x - 8

4. Efectúa la siguiente división:

15xyz : 3xy=

В 5ху

D 5z

- 5. Multiplica: 2x(x+1)
- A  $2x^3 + 1$

B 2x+2

C  $2x^2 + 2x$ 

D 2x

- 6.  $2x \cdot 5x^3 \cdot (-2x^7)$
- A 5x<sup>11</sup>

B -20x<sup>10</sup>

C 5x<sup>10</sup>

D -20x<sup>11</sup>

- 7. La suma de coeficientes del producto, es:  $(x^2-2x-1).\ (x^2+3x)$ 
  - (\* 2\* 1). (\* 13.
- A 7

В -10

C -8

D 6

8. EFECTUAR:

$$(x-2)(2+x)+4$$

A 2X

В **Х**<sup>3</sup>

C 4x<sup>2</sup>

D X<sup>2</sup>

- 9.  $\label{eq:REDUCIR:M} \text{REDUCIR:}$   $\label{eq:Meducia} M = 5a(b+c) 5b(a+c) 5c(a+b)$
- A -10ba

B -10bc

C ba

D -bc

- 10. Si:  $P_{(y)} = 2y^2 5y + 4$ ;  $Q_{(y)} = 3y^2 7y + 6$ Calcular:  $3P_{(y)} - 2Q_{(y)}$
- A -y

В у

C 2y

- D 3y+2
- 11. Reducir: 2(x + 4) 3(x + 3) + 4(x 2)
- A 2x-4

В 3х-9

C x-8

D 5x+1

12.

RESOLVER :

$$\frac{5x^7 - 10x^3 + 15x^2}{5x^2}$$

A  $x^5-5x+3x^2$ 

B  $x^{5}-2x+3$ 

C x9-2x+3

D x-3

13.

Hallar el área del rectángulo mostrado :



A  $12x^4+15x^3-x^2+10x-6$ 

B 7x<sup>2</sup>+10x-6

C  $x^4+15x^3-x^2+10x-9$ 

D  $5x^3+15x^2-x$ 

14.

Multiplicar:

 $(2a)(3b)(-4abc)(c^2)$ 

A -12a<sup>2</sup>b<sup>2</sup>c

B 8ab<sup>2</sup>c<sup>3</sup>

C 7a<sup>2</sup>bc<sup>3</sup>

D -24a<sup>2</sup>b<sup>2</sup>c<sup>3</sup>

٨	n <sup>5</sup> ∔1

B mn<sup>3</sup>-2

C 3mn<sup>5</sup>+1

D 3m<sup>3</sup>n<sup>7</sup>+1

16. Hallar el área de un cuadrado cuyo lado mide  $2x^2y^3$ 

A 8x<sup>4</sup>y<sup>6</sup>

B 4x<sup>4</sup>y

C  $4x^2y^3$ 

D -x<sup>4</sup>y<sup>6</sup>

17. Si el área de un rectángulo es 144a<sup>5</sup>b<sup>7</sup>c<sup>3</sup> y su ancho mide 9a<sup>3</sup>b<sup>3</sup>c<sup>3</sup>. Hallar la medida de su largo.

A 8a<sup>2</sup>b<sup>3</sup>

B 6a<sup>2</sup>

C 16a<sup>2</sup>b<sup>4</sup>

D a<sup>8</sup>b<sup>4</sup>

18. Si el lado de un cuadrado mide 4a³b⁴c. Hallar su perímetro

A b<sup>4</sup>c

B 16abc

C 16a<sup>3</sup>b<sup>4</sup>c

D 5a<sup>3</sup>bc

19. Resolver lo siguiente: 150  $a^7b^4c^2$ : 5  $a^5b^3c^2$ 

A 15a<sup>2</sup>b<sup>3</sup>

B 30b

C 22a<sup>2</sup>c

D 30a<sup>2</sup>b

Resolver:

$$R = \frac{39x^{42}y^{37}z^{27}}{3x^{25}y^{14}z^{19}}$$

 $13x^{17}y^{23}z^8$  $15x^{17}y^{27}z^8$ Α

 $10x^{15}y^{23}z^6$ В

С

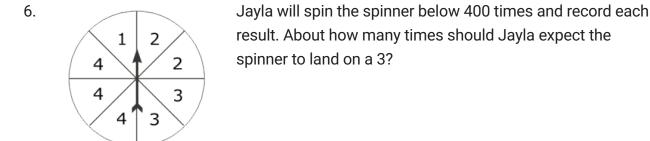
 $13x^{23}z^8$ D

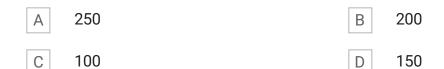
Ö	UIZIZZ	NAME	
	oretical vs Experimental Probability Questions	CLASS	
1.	Bella will roll a number cube, labeled could Bella expect to roll a number les	_	h 6, 300 times. <i>About</i> how many times 4?
Α	100	В	200
С	150	D	50
2.	Alexis has a number cube labeled 2, 4 About how many times could Alexis 6		), and 12. He will roll the cube 100 times. ne number cube to land on 8?
Α	8	В	11
С	5	D	16
3.	Shamar can hit a target with a basebarate, what is the approximate probabi		nes out of 18 total throws. Based on that ill hit the target on his next throw?
Α	67%	В	50%
С	12%	D	18%
4.	Achilles rolled a number cube, labeled his results. <i>About</i> how many times co		igh 6, 200 times and recorded each of illes expect to roll a 3 or 4?
Α	70	В	130
С	35	D	100

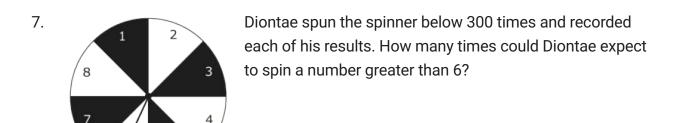
5.	McKayla flipped a coin 150 times. How many times could McKayla expect the coin to
	land on tails?













8. A farmer found 10 out of every 25 tomato plants will grow. This year, the farmer planted 200 tomato plants. How many plants can the farmer expect to grow?

Α	80		В	100
С	125		D	50

9.	The probability of winning a game is 1 many times could she expect to win?	: 12. If	Jada plays the game 60 times, how
Α	8	В	10
С	5	D	12
10.	The probability of winning a certain ga about how many times would someon		
Α	400	В	200
С	300	D	100
11.	The probability of flipping a heads on a times, approximately how many times		ir coin is 0.40. If the coin is tossed 500 e coin come up tails?
Α	300	В	400
С	40	D	200
12.	Experimental Probability is:		
Α	What I think Happens	В	What should happen
С	What Will happen	D	What actually happens
13.	Theoretical Probability is?		
Α	What I want to Happen	В	What does happen
С	What Will Happen	D	What Should happen
14.	What type of probability is a way of est based on repeated trials?	timatin	g the probability of an event happening
Α	Experimental Probabillity	В	Theoretical Probability

15.	What type of probability is used to find are equally as likely. "What COULD hap		obability of an event when all outcomes
Α	Theoretical Probability	В	Experimental Probability
16.	Isidro flips a fair coin 40 times. How m	nany tin	nes can he expect heads to appear?
Α	20	В	15
С	10	D	4
17.	Theoretical probability is based on		_
Α	What you have. Without experiments	В	your tally. With experiments
18.	Experimental probability is based on		
Α	What you have. Without experiments	В	your tally. With experiments
19.	The probability of picking a quarter fro	_	
Α	40	В	30
С	35	D	25
20.	<b>/ ↑</b> \	-	spinner 575 times. <i>About</i> how many a expect to land on an odd number?
Α	400	В	350
С	200	D	250

21. What is the theoretical probability of the spinner landing on yellow? yellow red blue green 1/2 В 1/4 С 2/3 1/3 D The spinner was spun 30 times and landed on blue 12 22. Blue Blue Red What was the experimental probability of  $\underline{\textit{NOT}}$  landing on Green Blue Green Yellow Green 2/5 3/5 В С 1/5 D 4/5 23. 2/5 2/3 Α В С 4/11 D 4/15 24.

В

D

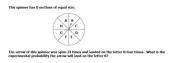
1/8

1/4

1/3

1/2

С



A 1/4

B 1/8

C 1/5

- D 1/6
- 26. Experimental Probability is \_\_\_\_\_
- A data from our experiment
- B our prediction
- 27. Theoretical Probability is \_\_\_\_
- A data from our experiment
- B our prediction

28.

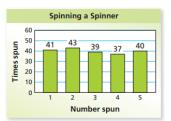


What is the theoretical probability of the spinner landing on a 5?

 $A = \frac{5}{8}$ 

B - {

 $\frac{1}{5}$ 



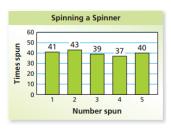
The bar graph shows the results of spinning the spinner 200 times. What is the experimental probability of landing on a 3?

 $\begin{array}{c} 3 \\ \hline 50 \end{array}$ 

 $\frac{3}{200}$ 

 $\begin{array}{c|c} \hline c & \frac{39}{200} \\ \hline \end{array}$ 

30.



The bar graph shows the results of spinning the spinner 200 times. What is the theoretical probability of landing on a 4?

 $\frac{4}{5}$ 

 $\frac{37}{200}$ 

 $\begin{bmatrix} c \end{bmatrix} = \begin{bmatrix} \frac{1}{5} \end{bmatrix}$ 

 $\frac{37}{50}$ 



What is the theoretical probability of tossing a number cube and it landing on an even number? *reduce your fraction* 

A

 $\begin{bmatrix} c \end{bmatrix} = \frac{1}{3}$ 

 $\frac{1}{2}$ 

32.

Number	Times tossed
1	13
2	15
3	14
4	12
5	18
6	18

Neil tossed a 6-sided die 90 times. The results of his tosses are recorded in the table below: Which number has the experimental probability of 13/90?

A 1

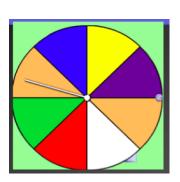
C 5

E 2

В 3

D 4

33.



Find the theoretical probability of NOT landing on yellow if you spin the spinner.

A 1/8

C 1

B 7/8



A bag contains 5 quarters, 2 dimes, and 4 pennies. What is the probability of picking a quarter?

A

5/6

В

1/3

5

С

5/11

D

35.

Type	Frequency
Green	15
Red	11
Blue	18

Shannon has a bag of jelly beans. She removed one jelly bean, recording the color, and then replaced it. She repeated the process 44 times and record her results in the table. What is the experimental probability of her selecting a red jelly bean?

Α

 $\frac{1}{3}$ 

В

 $\frac{18}{26}$ 

С

 $\frac{11}{33}$ 

D

44

Quizizz

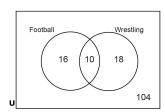
NAME:

CLASS:

Venn Diagram 15 Questions

DATE :

1.



How many senior boys play football but do not wrestle?

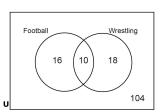
A 8

В 26

C 104

D 16

2.



How many senior boys play football or wrestle?

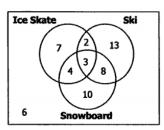
A 28

В 104

C 44

D 26

3.

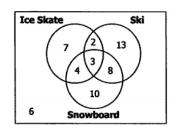


How many students took the survey?

A 30

В 6

C 47



How many students do not snowboard?

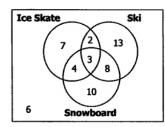
A 21

В 22

C 28

D 29

5.



How many students do not ski or ice skate?

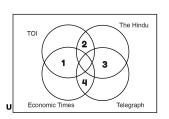
A 22

В 28

C 16

D 10

6.



Identify each region of the Venn diagram that represents students who reads only the TOI and The Hindu.

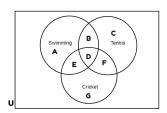
A 1

В 3

C 2

D 4

7.



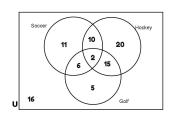
Which region(s) represent students that enjoy swimming and tennis?

A B and D

B A and C

СВ

D D



How many students like Soccer or Hockey or Golf?

Α

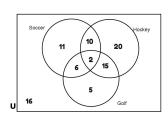
33

В 36

C 2

D 69

9.



How many students like Soccer or Golf?

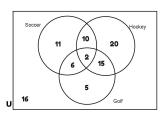
A 41

В 49

C 8

D 16

10.



How many students do not like either Soccer or Hockey?

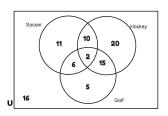
A 21

В 16

C 5

D 28

11.

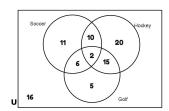


How many students like both Soccer and Hockey but not Golf?

A 10

В 41

C 12



How many students only like Soccer?

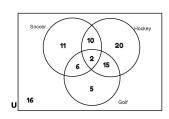
A 18

В 45

C 29

D 11

13.



How many students like both Hockey and Golf?

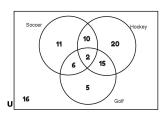
A 40

В 56

C 17

D 58

14.



How many students do not like either Soccer or Golf?

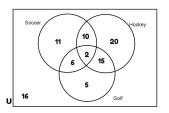
A 47

В 36

C 63

D 20

15.



How many students do not like either Soccer or Golf or Hockey?

A 16

В 36

C 2