

**ANALOGIAS Y DISTRIBUCIONES**

**ANALOGÍAS:** Consiste en encontrar la relación de los números de forma horizontal.

Ejemplo: Calcule el término desconocido en la siguiente analogía:

3 (34) 5	$3^2 + 5^2 = 34$	
4 (20) 2	$4^2 + 2^2 = 20$	
2 ( x ) 5	$2^2 + 5^2 = x$	<b>x = 29</b>

**PRACTIQUEMOS EN CLASE** 

01) 2 (32) 5  
6 (36) 2  
1 ( x ) 10

- A) 0                      B) 1                      C) 10  
D) 5                      E) 2

02) 2 ( 7 ) 1  
9 (29) 2  
8 ( x ) 6

- A) 20                      B) 24                      C) 25  
D) 28                      E) 30

03) 4 ( 4 ) 28  
17 ( 5 ) 33  
120 ( x ) 80

- A) 5                      B) 8                      C) 10  
D) 12                      E) 15

04) 263 (110) 730  
131 (45) 405  
280 ( x ) 529

- A) 120                      B) 150                      C) 160  
D) 180                      E) 200

## CIRCULO EDUCATIVO

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05) 9 (x) 1  
64 (4) 3  
16 (2) 4

A) 7                    B) 9                    C) 5  
D) 10                   E) 14

06) 234 (1) 521  
592 (0) 763  
325 (4) 804  
724 (x) 591

A) 3                    B) 4                    C) 5  
D) 6                    E) 7

07) 24 (86) 35  
43 (77) 61  
22 (x) 31

A) 53                    B) 9                    C) 44  
D) 52                    E) 37

08) 73 (14) 21  
82 (36) 30  
93 (x) 41

A) 32                    B) 34                    C) 36  
D) 38                    E) 40

09) 21 (18) 7  
19 (x) 9  
32 (20) 16

A) 12                    B) 13                    C) 14  
D) 15                    E) 20

10) 2 (10) 6  
7 (10) 3  
5 (7) 2  
4 (x) 4

A) 10                    B) 12                    C) 13  
D) 14                    E) 20

# CIRCULO EDUCATIVO



RESUELVE EN CASA



Calcule el valor de "x" en las siguientes analogías:

01)  $14 \quad (39) \quad 23$   
 $21 \quad (58) \quad 35$   
 $43 \quad (x) \quad 16$

- A) 50                      B) 54                      C) 58  
D) 60                      E) 61

02)  $27 \quad (19) \quad 32$   
 $42 \quad (26) \quad 31$   
 $90 \quad (x) \quad 41$

- A) 32                      B) 34                      C) 38  
D) 39                      E) 42

03)  $10 \quad (117) \quad 12$   
 $24 \quad (69) \quad 2$   
 $30 \quad (x) \quad 2$

- A) 32                      B) 23                      C) 87  
D) 90                      E) 80

04)  $16 \quad (4) \quad 6$   
 $9 \quad (49) \quad 10$   
 $81 \quad (x) \quad 14$

- A) 16                      B) 20                      C) 25  
D) 36                      E) 42

05)  $27 \quad (6) \quad 4$   
 $43 \quad (8) \quad 5$   
 $38 \quad (x) \quad 7$

- A) 2                      B) 4                      C) 5  
D) 6                      E) 8

06)  $7 \quad (41) \quad 8$   
 $9 \quad (71) \quad 10$   
 $11 \quad (x) \quad 50$

- A) 51                      B) 61                      C) 71  
D) 41                      E) 81

07)  $49 \quad (13) \quad 3$   
 $82 \quad (12) \quad 6$   
 $26 \quad (x) \quad 2$

- A) 6                      B) 7                      C) 8  
D) 9                      E) 10

08)  $23 \quad (8) \quad 9$   
 $21 \quad (x) \quad 27$   
 $17 \quad (10) \quad 23$

- A) 10                      B) 12                      C) 15  
D) 20                      E) 25

## CIRCULO EDUCATIVO

09)  $\begin{matrix} 3 & (43) & 4 \\ 5 & (189) & 2 \\ 6 & (x) & 7 \end{matrix}$

- A) 205      B) 235      C) 245  
D) 255      E) 265

10)  $\begin{matrix} (28) & 1 & 3 \\ (91) & 3 & 4 \\ (x) & 5 & 6 \end{matrix}$

- A) 340      B) 341      C) 342  
D) 343      E) 344

**DISTRIBUCIÓN:** Consiste en establecer una relación planteada en las premisas, sea horizontal o vertical.

### DISTRIBUCIÓN NUMÉRICA

a)  $\begin{matrix} 6 & 8 & 34 & \rightarrow & (6 \cdot 8) - 14 = 34 \\ 9 & 3 & 13 & \rightarrow & (9 \cdot 3) - 14 = 13 \\ 7 & 5 & x & \rightarrow & (7 \cdot 5) - 14 = x \end{matrix}$

**$x = 21$**

b)  $\begin{matrix} 12 & 13 & 30 \\ 16 & 23 & 18 \\ 7 & x & 12 \end{matrix}$

$\downarrow$        $\downarrow$        $\downarrow$

$\frac{(30+18)}{4} = 12$

$\frac{(13+23)}{4} = x$

$\frac{(12+16)}{4} = 7$

**$x = 9$**

# CIRCULO EDUCATIVO



Halle el valor de "x" en cada caso:

01) 
$$\begin{array}{ccc} 20 & 111 & 289 \\ 13 & 160 & 9 \\ x & 130 & 14 \end{array}$$

- A) 18                      B) 15                      C) 10  
D) 9                        E) 12

02) 
$$\begin{array}{ccc} 60 & 4 & 4 \\ 50 & 75 & 5 \\ 40 & 85 & x \end{array}$$

- A) 2                        B) 4                        C) 5  
D) 6                        E) 7

03) 
$$\begin{array}{ccc} 3 & 26 & 3 \\ 2 & 15 & 4 \\ 7 & x & 2 \end{array}$$

- A) 48                      B) 40                      C) 32  
D) 42                      E) 51

04) 
$$\begin{array}{ccc} 24 & 25 & 35 \\ 69 & 78 & x \\ 72 & 44 & 41 \end{array}$$

- A) 76                      B) 35                      C) 85  
D) 58                      E) 67

05) 
$$\begin{array}{ccc} 4 & 39 & 9 \\ 11 & x & 7 \\ 6 & 42 & 8 \end{array}$$

- A) 50                      B) 52                      C) 54  
D) 55                      E) 60

06) 
$$\begin{array}{ccc} 2 & 3 & 1 \\ 4 & 32 & 2 \\ 2 & x & 5 \end{array}$$

- A) 50                      B) 52                      C) 57  
D) 60                      E) 70

07) 
$$\begin{array}{ccc} 6 & 8 & 36 \\ 7 & 9 & x \\ 5 & 12 & 48 \end{array}$$

- A) 45                      B) 48                      C) 51  
D) 62                      E) 74

08) 
$$\begin{array}{ccc} 13 & 64 & 6 \\ 24 & x & 15 \\ 47 & 81 & 39 \end{array}$$

- A) 25                      B) 36                      C) 49  
D) 100                      E) 64

# CIRCULO EDUCATIVO

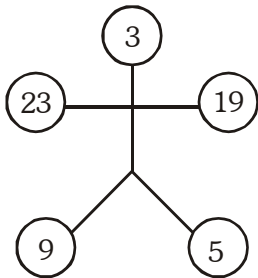
09) 3 16 4  
12 9 2  
6 x 7

- A) 9                      B) 10                      C) 12  
D) 14                      E) 18

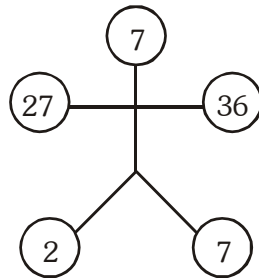
10) 5 4 3  
2 3 3  
7 10 14

- A) 5                      B) 9                      C) 12  
D) 13                      E) 15

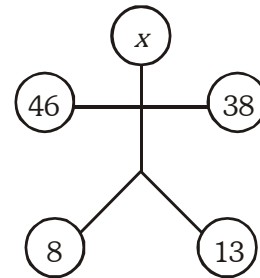
## DISTRIBUCIÓN GRÁFICA



$$\begin{array}{r} 23 + 19 = 42 \\ 9 + 5 = 14 \\ \hline 3 \end{array} \quad \div$$



$$\begin{array}{r} 27 + 36 = 63 \\ 2 + 7 = 9 \\ \hline 7 \end{array} \quad \div$$

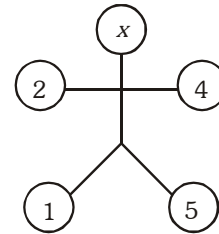
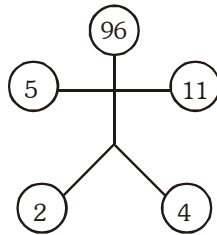
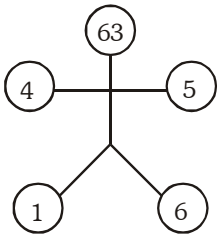


$$\begin{array}{r} 46 + 38 = 84 \\ 8 + 13 = 21 \\ \hline x \end{array} \quad \div$$

# CIRCULO EDUCATIVO

## PRACTIQUEMOS EN CLASE

01.



A) 30

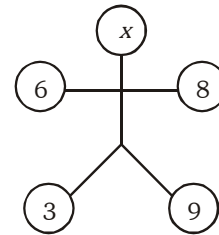
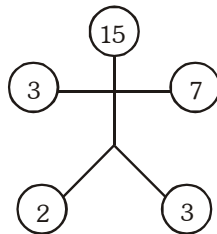
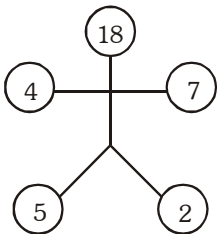
B) 32

C) 36

D) 40

E) 42

02.



A) 20

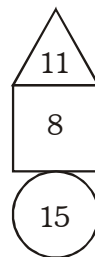
B) 21

C) 22

D) 23

E) 24

03.



A) 50

B) 35

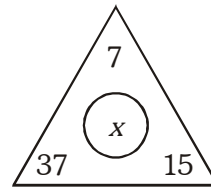
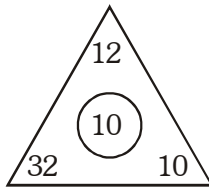
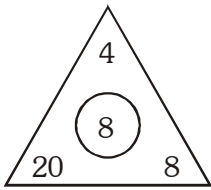
C) 45

D) 25

E) 20

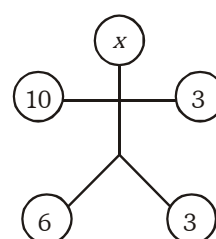
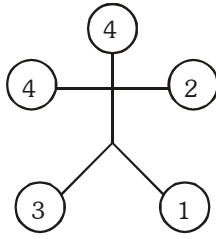
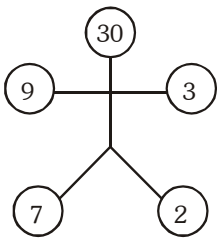
# CIRCULO EDUCATIVO

04.



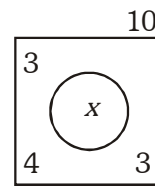
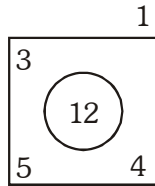
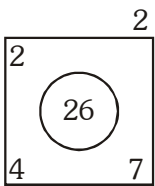
- A) 15                      B) 30                      C) 42                      D) 50                      E) 35

05.



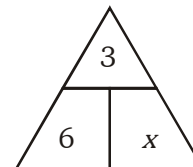
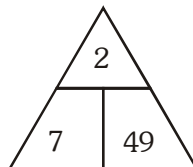
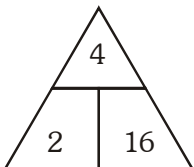
- A) 15                      B) 18                      C) 21                      D) 30                      E) 34

06.



- A) 40                      B) 50                      C) 75                      D) 90                      E) 100

07.

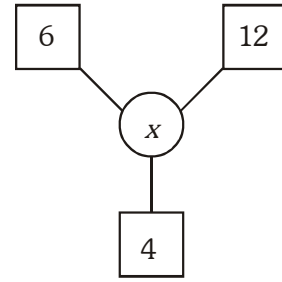
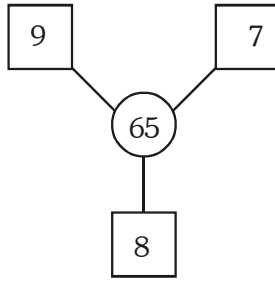
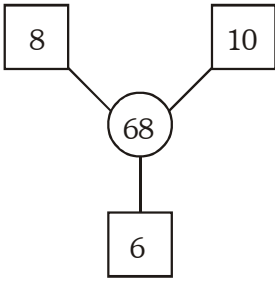


- A) 36                      B) 216                      C) 63                      D) 6                      E) 26



# CIRCULO EDUCATIVO

08.



A) 50

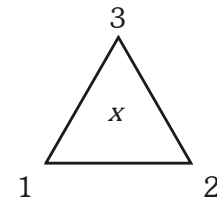
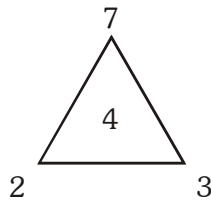
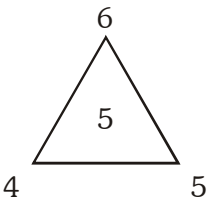
B) 52

C) 54

D) 56

E) 60

09.



A) 2

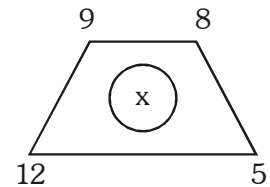
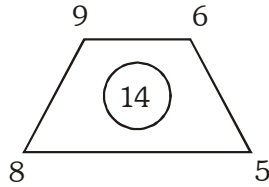
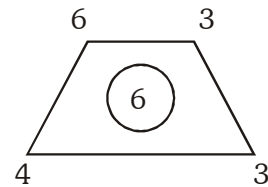
B) 3

C) 4

D) 5

E) 6

10.



A) 8

B) 10

C) 12

D) 14

E) 16

# CIRCULO EDUCATIVO



REFORCEMOS EN CASA



01. 
$$\begin{array}{r} 429 \\ 731 \\ \hline \end{array} \begin{array}{r} 149 \\ x \\ \hline \end{array} \begin{array}{r} 131 \\ 267 \\ \hline \end{array}$$

- A) 230                      B) 232  
D) 404                      E) 200

02. 
$$\begin{array}{r} 16 \\ 1 \\ 25 \\ \hline \end{array} \begin{array}{r} 7 \\ 8 \\ x \\ \hline \end{array} \begin{array}{r} 3 \\ 7 \\ 2 \\ \hline \end{array}$$

- A) 5                              B) 7  
D) 10                            E) 12

03. 
$$\begin{array}{r} 3 \\ 6 \\ 2 \\ \hline \end{array} \begin{array}{r} 24 \\ 30 \\ x \\ \hline \end{array} \begin{array}{r} 16 \\ 10 \\ 20 \\ \hline \end{array}$$

- A) 10                            B) 15  
D) 25                            E) 30

04. 
$$\begin{array}{r} 2 \\ 7 \\ 5 \\ 4 \\ \hline \end{array} \begin{array}{r} 4 \\ 14 \\ 10 \\ 8 \\ \hline \end{array} \begin{array}{r} 12 \\ 42 \\ 30 \\ x \\ \hline \end{array}$$

- A) 20                            B) 21  
D) 23                            E) 24

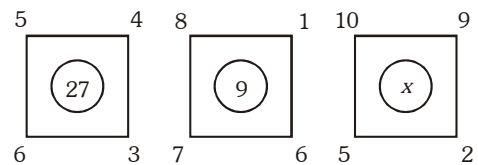
05. 
$$\begin{array}{r} 4 \\ 8 \\ 8 \\ \hline \end{array} \begin{array}{r} 2 \\ 1 \\ x \\ \hline \end{array} \begin{array}{r} 2 \\ 2 \\ 4 \\ \hline \end{array} \begin{array}{r} 4 \\ 3 \\ 3 \\ \hline \end{array}$$

- A) 1                              B) 2                              C) 3  
D) 4                              E) 5

06. 
$$\begin{array}{r} 3 \\ 6 \\ 2 \\ 5 \\ \hline \end{array} \begin{array}{r} 4 \\ 1 \\ 7 \\ 6 \\ \hline \end{array} \begin{array}{r} 13 \\ 37 \\ 11 \\ x \\ \hline \end{array}$$

- A) 30                            B) 32                            C)  
25  
D) 31                            E) 40

07.



- A) 18                            B) 36                            C)  
45  
D) 57                            E) 65

08.

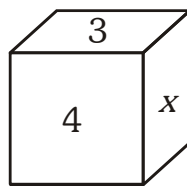
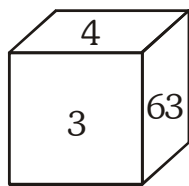
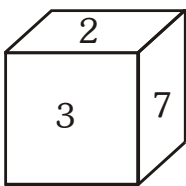
$x$		
4	8	
1	1	1

9		
1	20	
3	4	5

20		
36	17	
10	11	12

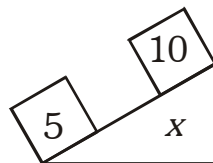
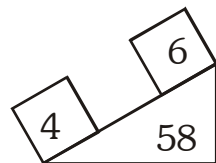
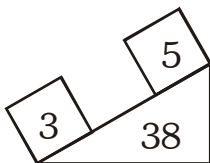
- A) 9                      B) 10                      C) 5  
 D) 6                      E) 12

09.



- A) 50                      B) 60                      C) 70  
 D) 80                      E) 90

10.



- A) 115                      B) 116                      C) 117  
 D) 118                      E) 119