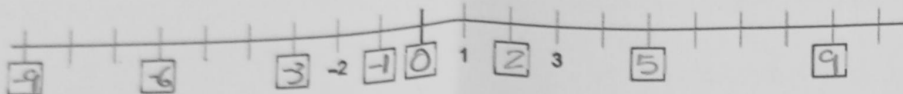


# SOLUCIONES

- 1 Completar con el signo  $<$  o  $>$ , según corresponda (véase el primer ejemplo):

|              |               |               |
|--------------|---------------|---------------|
| a) $3 < 7$   | e) $-1 > -4$  | i) $-3 < 3$   |
| b) $11 > 6$  | f) $-12 < -3$ | j) $7 > -1$   |
| c) $-2 < 5$  | g) $8 > 0$    | k) $-4 < -1$  |
| d) $10 > -6$ | h) $1 < 9$    | l) $-2 > -13$ |

- 2 Rellenar los cuadrados en la siguiente recta numérica:



- 3 Ordenar de menor a mayor los siguientes Z:  $-34, 23, 7, 100, -33, 0, 24, -2, 14, -1, 132, -1000$   
 $-1000 < -34 < -33 < -2 < -1 < 0 < 7 < 14 < 23 < 24 < 100 < 132$
- 4 Escribir los opuestos de los siguientes Z:  $-23, 5, 7, 0, -2, -5, 21, -2$  repetido  
 $Op(-23) = 23; Op(5) = -5; Op(7) = -7; Op(0) = 0; Op(-2) = 2; Op(-5) = 5; Op(21) = -21$
- 5 Indicar el valor absoluto de los siguientes Z:

|                 |                   |                  |
|-----------------|-------------------|------------------|
| a) $ 5  = 5$    | f) $ -1  = 1$     | k) $ -2  = 2$    |
| b) $ -3  = 3$   | g) $ -114  = 114$ | l) $ 5  = 5$     |
| c) $ 57  = 57$  | h) $ 12  = 12$    | m) $ 5+2  = 7$   |
| d) $ -23  = 23$ | i) $ -37  = 37$   | n) $ 14-3  = 11$ |
| e) $ 0  = 0$    | j) $ 1  = 1$      | o) $ 2-5  = 3$   |

- 6 Opera:

|                               |                                 |                    |
|-------------------------------|---------------------------------|--------------------|
| q) $-16 - (-7) = 16 + 7 = 23$ | u) $-34 - 5 = -39$              | y) $24 - 42 = -18$ |
| r) $-1 + (-1) = -2$           | v) $-13 - 13 = -26$             | z) $2 - 37 = -35$  |
| s) $-8 - 13 = -21$            | w) $-2 + (-18) = -2 - 18 = -20$ |                    |

- 7 Opera (recuerda subrayar lo que vas a hacer):

g)  $-15 - (-2) - (-3) + 1 = -15 + 2 + 3 + 1 = -15 + 6 = -9$

h)  $14 - (-11) - (-15) - 8 = 14 + 11 + 15 - 8 = 40 - 8 = 32$

i)  $-12 + (-11) - 14 + 3 = -12 - 11 - 14 + 3 = -37 + 3 = -34$

j)  $10 - (-12) - (-3) - (-5) = 10 + 12 + 3 + 5 = 30$

Opera respetando prioridad de operaciones y *subrayando la operación que vas a realizar:*

*en el folio →*

8 d)  $[4-2+(-13)]-(8-3) = -16$

9 e)  $12+(15-3)-(-1-18) = 43$

10 f)  $-4-[34-(-2)]-(-5) = -35$

11 g)  $9+3-\{ -[14-(-5)]-8 \} = 39$

12 h)  $-3-[-(-2+5-4)-(-1-2)] = -7$

13 i)  $14:7 \cdot [-27:(-3)] = 18$

14 m)  $-9 \cdot 5:[-3 \cdot (-5)]:(-3) = 1$

15 n)  $-12:(-3) \cdot (-15 \cdot 3:5) = -36$

16 o)  $-12+5-[(6+7) \cdot (2+6-3)+9]-21:(-3) = -74$

17 s)  $[-5+(-3-9):(3-9)] \cdot 2+2-|(-8):2 \cdot 4| = -20$

$$\begin{aligned} \textcircled{8} \quad & [4 - 2 + (-13)] - (8 - 3) = \\ & = [4 - 2 - 13] - 5 = \\ & = [-11] - 5 = \boxed{-16} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & 12 + (15 - 3) - (-1 - 18) = \\ & = 12 + 12 - (-19) = \\ & = 12 + 12 + 19 = \boxed{43} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & -4 - [34 - (-2)] - (-5) = \\ & = -4 - [34 + 2] + 5 = \\ & = -4 - 36 + 5 = \boxed{-35} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & 9 + 3 - \{-[14 - (-5)] - 8\} = \\ & = 9 + 3 - \{-[14 + 5] - 8\} = \\ & = 9 + 3 - \{-19 - 8\} = \\ & = 9 + 3 - (-27) = \\ & = 9 + 3 + 27 = \boxed{39} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & -3 - [-(-2 + 5 - 4) - (-1 - 2)] = \\ & = -3 - [-(-1) - (-3)] = \\ & = -3 - [1 + 3] = \\ & = -3 - 4 = \boxed{-7} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & 14 : 7 \cdot [-27 : (-3)] = \\ & = 14 : 7 \cdot 9 = \\ & = 2 \cdot 9 = \boxed{18} \checkmark \end{aligned}$$

Operatives

$$\begin{array}{r} 13 \\ \times 5 \\ \hline 65 \\ + 9 \\ \hline 74 \end{array}$$

$$\begin{array}{r} -12 \\ -24 \\ \hline -86 \\ + 12 \\ \hline -74 \end{array}$$

Opera

$$\begin{array}{r} 24 \\ + 19 \\ \hline 43 \end{array}$$

$$\begin{aligned} \textcircled{14} \quad & -9 \cdot 5 : [-3 \cdot (-5)] : (-3) = \\ & = -9 \cdot 5 : [15] : (-3) = \\ & = -45 : 15 : (-3) = \\ & = -3 : (-3) = \\ & = \boxed{1} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & -12 : (-3) \cdot (-15 \cdot 3 : 5) = \\ & = 4 \cdot (-45 : 5) = \\ & = 4 \cdot (-9) = \boxed{-36} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & -12 + 5 - [(6 + 7)(2 + 6 - 3) + 9] - 21 : (-3) = \\ & = -12 + 5 - [13 \cdot 5 + 9] - 21 : (-3) = * \\ & = -12 + 5 - [65 + 9] - 21 : (-3) = \\ & = -12 + 5 - 74 + 7 = \\ & = -12 + 370 + 7 = \boxed{-74} \checkmark \end{aligned}$$

$$\begin{aligned} \textcircled{17} \quad & [-5 + (-3 \cdot 9) : (3 - 9)] 2 + 2 - |(-8) : 2 \cdot 4| = \\ & = [-5 - 12 : (-6)] 2 + 2 - |-4 \cdot 4| = * \\ & = [-5 + 2] 2 + 2 - |-16| = \\ & = -3 \cdot 2 + 2 - 16 = \\ & = -6 + 2 - 16 = \boxed{-20} \checkmark \end{aligned}$$