

Ejercicios Matemática

I.F.1.1 Desarrolla paso a paso los siguientes ejercicios

$$\begin{aligned} \text{a)} \quad & \{(-3)+5-[-(-4)+8]-(-1)\}+(-2) \\ & \{(-3+5)-(4)+1\}-2 \\ & \{2-4+1\}-2 \\ & \{-1\}-2 = \boxed{-3} \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & -\{5-(-4)+(-1)-(3+2)\} \\ & -\{5+4-1-5\} \\ & -\{3\} = \boxed{-3} \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & (-8)+[7-(-10)]-\{(-5)+[(-8)-(-9)]\} \\ & (-8)+17-\{-5+1\} \\ & 9-(-4) \\ & 9+4 = \boxed{13} \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & 16+(15-2)+(7-3)+3 \\ & 16+13+4+3 \\ & 29+7 = \boxed{36} \end{aligned}$$

$$\begin{aligned} \text{e)} \quad & 30-[4+(12-4)-3(10-3)] \\ & 30-[4+8-21] \\ & 30-[-9] \\ & 30+9 = \boxed{39} \end{aligned}$$

$$\begin{aligned} \text{f)} \quad & 40+(23-7)+[7+(5-3)\cdot(-4)] \\ & 40+16+[7+(-8)] \\ & 56+[-1] \\ & 56-1 = \boxed{55} \end{aligned}$$

$$g) [5(4-2) + 20 : (4+1) + 1] : 5$$

$$[10 + 4 + 1] : 5$$

$$15 : 5 = \boxed{3}$$

$$h) 60 - \{ [5(6-3) + (8-2) : 3] \cdot 2 \}$$

$$60 - \{ [15 + 2] \cdot 2 \}$$

$$60 - \{ [17] \cdot 2 \}$$

$$60 - \{ 34 \}$$

$$60 - 34 = \boxed{26}$$

$$i) \{ [18 - 6 - 2 \cdot (8-4) + 3 \cdot (5-2) + 2] : 3 \} \cdot 2$$

$$\{ [18 - 6 - 8 + 9 + 2] : 3 \} \cdot 2$$

$$\{ [15] : 3 \} \cdot 2$$

$$\{ 5 \} \cdot 2 = \boxed{10}$$

$$j) (3^2 - 2^2) : \{ (3+2)^2 + [(-5)^2 + 5^2] : 12 + 10 \cdot (-2) \}$$

$$(9 - 4) : \{ (25) + [0] : 12 + (-20) \}$$

$$5 : \{ (25) + 0 + (-20) \}$$

$$5 : \{ 5 \} = \boxed{1}$$

$$k) [(-5) + (+2) - (-3)] : [(-4) + (-5)]$$

$$[0] : [-9] = \boxed{0}$$

$$l) (-32) : \{ (+8) \cdot [(+3) : (+4)] \} \cdot (+9)$$

$$(-32) : \{ (+8) \cdot 0,75 \} \cdot (+9)$$

$$(-32) : \{ 6 \} \cdot (+9)$$

$$-5,33 \cdot 9 = \boxed{47,97}$$