



COLEGIO ALMA'S
bilingual school

APELLIDOS Y NOMBRE: Corrección Recuperación

CURSO: N°

FECHA: ASIGNATURA:

1) a) $4 \cdot [6 - 5 \cdot 2]^2 + 32 : 2^3 = 4(-4)^2 + 4 = \boxed{68}$

b) $8 : (-4) + 19 - 9(6) = -2 + 3 - 54 = \boxed{-53}$

c) $25 \cdot (-6) : 2 + 6 : (6) = -75 + 1 = \boxed{-74}$

d) $9^2 : 9 - [15 : (6 - 9) + 2] = 9 - [-5 + 2] = 9 - (-3) = 9 + 3 = \boxed{12}$

e) $7 \cdot (8) + 25 \cdot 4 : (-2) - (4)^2 = -56 - 50 - 16 = \boxed{-122}$

2)
$$\left. \begin{array}{l} 24 = 2^3 \cdot 3 \\ 30 = 2 \cdot 3 \cdot 5 \\ 18 = 2 \cdot 3^2 \\ 16 = 2^4 \end{array} \right\} \begin{array}{l} \text{MCD} = \boxed{2} \\ \text{mcm} = 2^4 \cdot 3^2 \cdot 5 = \boxed{720} \end{array}$$

3) a) $\frac{7}{4} : \frac{1}{3} = \frac{5}{6} : \frac{1}{6} = \frac{21}{4} \cdot 5 = \boxed{\frac{105}{4}}$

b) $5 - 3 \left[\left(\frac{23}{18} \right) \cdot \frac{3}{4} + \frac{5}{6} \right] = 5 - 3 \left(\frac{23}{24} + \frac{5}{6} \right) = 5 - 3 \frac{43}{24} = 5 - \frac{43}{8} = \boxed{\frac{-3}{8}}$

c) $\frac{3}{2} \cdot \frac{2}{3} - 1 + 2 = 1 - 1 + 2 = \boxed{2}$

d) $\frac{1}{4} + \frac{8}{3} \left(\frac{5}{3} \right) - \frac{9}{16} = \frac{1}{4} + \frac{40}{9} - \frac{9}{16} = \frac{2^2 3^2 + 40 \cdot 2^4 - 9 \cdot 3^2}{24 \cdot 3^2} = \frac{36 + 640 - 81}{24 \cdot 3^2} = 81$

$$= \frac{595}{24 \cdot 3^2} = \frac{595}{144}$$

e) $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \boxed{1}$

4) $1'23\bar{6} = \frac{1236 - 123}{900} = \frac{1113}{900} = \frac{371}{300}$

f) $\frac{8}{3} \cdot \frac{8}{3} - 1 = 1 - 1 = \boxed{0}$

$1'04\bar{5} = \frac{1045 - 10}{990} = \frac{1035}{990} = \frac{207}{198} = \frac{69}{66} = \frac{23}{22}$

$3'2 \cdot 32 = \boxed{96}$



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5) a) $\frac{6^3 \cdot 4^3}{9 \cdot 10^2} = \frac{(2 \cdot 3)^3 \cdot (2^2)^3}{3^2 \cdot (2 \cdot 5)^2} = \frac{2^3 \cdot 3^3 \cdot 2^6}{3^2 \cdot 2^2 \cdot 5^2} = \frac{2^3 \cdot 3}{5^2}$

b) $\frac{10^2}{30 \cdot 12^3} = \frac{2^2 \cdot 5^2}{2^2 \cdot 3^2 \cdot 5^2 \cdot (2 \cdot 3)^3} = \frac{2^2 \cdot 5^2}{2^2 \cdot 3^2 \cdot 5^2 \cdot 2^3 \cdot 3^3} = \frac{2^2 \cdot 5^2}{2^5 \cdot 3^5} = \frac{1}{2^3 \cdot 3^3}$

6) a) $\sqrt[3]{27000} = 2 \cdot 5 \cdot 3 = 30$

b) $\sqrt[4]{1296} = 2 \cdot 3 = 6$

27000	25
2700	25
270	25
27	3
9	3
3	3

1296	2
648	2
324	2
162	2
81	3
27	3
9	3
3	3

7)

A	Días
12	15
4	x

 $\frac{15}{x} = \frac{4}{12} \rightarrow \frac{15}{x} = \frac{1}{3} \rightarrow x = 45 \text{ días}$

8)

min	PIEZAS
30	5
x	12

 $\frac{30}{x} = \frac{5}{12} \rightarrow 5x = 30 \cdot 12 \rightarrow x = \frac{30 \cdot 12}{5}$
 $x = 72 \text{ min}$

9)

Km	horas	Días
54	4	6
140	x	14

 $\frac{4}{x} = \frac{54}{140} \cdot \frac{14}{6} \rightarrow \frac{4}{x} = \frac{54}{60} = \frac{9}{10}$
 $9x = 40 \rightarrow x = \frac{40}{9} \text{ horas}$