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1. Descomponer en factores primos y calcular el m.c.m. de:

- a) 8, 16 y 24
- b) 18, 36 y 72
- c) 50 y 60

2. Resuelve y simplifica las siguientes operaciones con fracciones:

a) $\frac{5}{3} \cdot \frac{2}{8} = \frac{10}{24} = \frac{5}{12}$

b) $\frac{6}{8} : \frac{5}{10} = \frac{60}{40} = \frac{3}{2}$

c) $\frac{12}{25} + \frac{10}{25} = \frac{22}{25}$

d) $\frac{70}{15} - \frac{30}{15} = \frac{40}{15} = \frac{8}{3}$

e) $\frac{5}{3} + \frac{2}{5} + \frac{4}{10} = \frac{50 + 12 + 12}{30} = \frac{50 + 24}{30} = \frac{74}{30} = \frac{37}{15}$

f) $\frac{6}{3} \cdot \frac{2}{10} + \frac{4}{5} \Rightarrow \frac{12}{30} + \frac{4}{5} = \frac{12 + 24}{30} = \frac{36}{30} = \frac{18}{15} = \frac{6}{5}$

① a)
$$\begin{array}{r|l} 8 & 2 \\ 4 & 2 \\ 2 & 2 \\ 1 & \end{array} \quad \begin{array}{r|l} 16 & 2 \\ 8 & 2 \\ 4 & 2 \\ 2 & 2 \\ 1 & \end{array} \quad \begin{array}{r|l} 24 & 2 \\ 12 & 2 \\ 6 & 2 \\ 3 & 3 \\ 1 & \end{array}$$

$8 = 2^3$
 $16 = 2^4$
 $24 = 2^3 \cdot 3$

m.c.m. = $2^4 \cdot 3 = 16 \cdot 3 = 48$

b)
$$\begin{array}{r|l} 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array} \quad \begin{array}{r|l} 36 & 2 \\ 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array} \quad \begin{array}{r|l} 72 & 2 \\ 36 & 2 \\ 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$18 = 2 \cdot 3^2$
 $36 = 2^2 \cdot 3^2$
 $72 = 2^3 \cdot 3^2$

m.c.m. = $2^3 \cdot 3^2 = 8 \cdot 9 = 72$

c)
$$\begin{array}{r|l} 50 & 2 \\ 25 & 5 \\ 5 & 5 \\ 1 & \end{array} \quad \begin{array}{r|l} 60 & 2 \\ 30 & 2 \\ 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$50 = 2 \cdot 5^2$
 $60 = 2^2 \cdot 3 \cdot 5$

m.c.m. = $2^2 \cdot 3 \cdot 5^2 = 12 \cdot 25 = 300$

Concéntrate en la realización de los ejercicios y revisa antes de entregar.