



Nombre: ... Enzo M. Kovsky ..... 30-01-18

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

- a) 28, 48 y 96
- b) 15, 30 y 60
- c) 45 y 90

2. Resuelve y simplifica las siguientes operaciones con fracciones:

- a)  $\frac{15}{30} \cdot \frac{2}{8}$
- b)  $\frac{60}{80} : \frac{5}{10}$
- c)  $\frac{12}{25} + \frac{10}{25} + \frac{20}{25}$
- d)  $(\frac{70}{15} - \frac{30}{15}) \cdot \frac{4}{5}$
- e)  $\frac{5}{3} + \frac{2}{5} + \frac{4}{10}$
- f)  $\frac{6}{3} \cdot \frac{2}{10} + \frac{4}{5}$
- g)  $\frac{4}{6}$  de 120

1ª a)

$28 \begin{array}{l}   2 \\ 14 \\   2 \\ 7 \\   7 \\ 1 \end{array}$	$48 \begin{array}{l}   2 \\ 24 \\   2 \\ 12 \\   2 \\ 6 \\   2 \\ 3 \\   3 \\ 1 \end{array}$	$96 \begin{array}{l}   2 \\ 48 \\   2 \\ 24 \\   2 \\ 12 \\   2 \\ 6 \\   2 \\ 3 \\   3 \\ 1 \end{array}$	$7 \cdot 3 \cdot 2^5 = 672$
---	--	---	-----------------------------

b)

$15 \begin{array}{l}   3 \\ 5 \\   5 \\ 1 \end{array}$	$30 \begin{array}{l}   3 \\ 10 \\   2 \\ 5 \\   5 \\ 1 \end{array}$	$60 \begin{array}{l}   2 \\ 30 \\   3 \\ 10 \\   2 \\ 5 \\   5 \\ 1 \end{array}$	$2^2 \cdot 3 \cdot 5 = 60$
--	---	--	----------------------------



$$c) \begin{array}{r} 45 \overline{) 90} \\ \underline{15} \phantom{0} \\ 5 \phantom{0} \\ \underline{5} \phantom{0} \\ 0 \end{array} \quad \begin{array}{r} 90 \overline{) 2} \\ \underline{45} \phantom{0} \\ 15 \phantom{0} \\ \underline{5} \phantom{0} \\ 0 \end{array} \quad 2 \cdot 3^2 \cdot 5 = 90$$

$$2a) \frac{15}{30} \cdot \frac{2}{8} = \frac{30}{240} = \frac{1}{8}$$

$$b) \frac{60}{80} : \frac{5}{10} = \frac{600}{400} = \frac{3}{2}$$

$$c) \frac{12}{25} + \frac{70}{25} + \frac{20}{25} = \frac{42}{25}$$

$$d) \left( \frac{70}{15} - \frac{30}{15} \right) \cdot \frac{4}{5} =$$

$$\frac{40}{15} \cdot \frac{4}{5} = \frac{160}{75} = \frac{32}{15}$$

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

$$f) \frac{6}{3} \cdot \frac{2}{10} + \frac{4}{5} =$$

$$\frac{12}{30} + \frac{4}{5} = \frac{12+24}{30} = \frac{36}{30} = \frac{18}{15} = \frac{6}{5}$$

$$g) \frac{4}{6} \text{ de } 720 \left\{ \begin{array}{l} 720 \times 4 = 480 \\ 480 \overline{) 720} \\ \underline{00} \phantom{0} \\ 00 \phantom{0} \end{array} \right. \quad \begin{array}{r} 720 \\ -80 \\ \hline 040 \end{array}$$

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