

SOLUCIONES

$$\textcircled{1} \text{ a) } \frac{3}{5} + \frac{4}{3} = \frac{9}{15} + \frac{20}{15} = \frac{9+20}{15} = \frac{29}{15}$$

\swarrow $15:5 \cdot 3$
 \nwarrow $15:3 \cdot 4$
 \swarrow \nwarrow
 m.c.m.(5,3) = 15

$$\text{b) } \frac{7}{12} + \frac{7}{4} = \frac{7}{12} + \frac{21}{12} = \frac{7+21}{12} = \frac{28}{12} = \frac{14}{6} = \frac{7}{3} \quad \text{m.c.m.}(12,4) = 12$$

$$\text{c) } \frac{3}{5} - \frac{2}{5} = \frac{3-2}{5} = \frac{1}{5}$$

ya tienen el mismo denominador

$$\text{d) } \frac{13}{12} - \frac{2}{3} = \frac{13}{12} - \frac{8}{12} = \frac{5}{12} \quad \text{m.c.m.}(12,3) = 12$$

$$\text{e) } \frac{1}{6} + \frac{3}{4} - \frac{1}{2} = \frac{2}{12} + \frac{9}{12} - \frac{6}{12} = \frac{5}{12} \quad \text{m.c.m.}(6,4,2) = 12$$

$$\text{f) } \frac{3}{4} - \frac{1}{20} + \frac{5}{8} - \frac{7}{5} = \frac{30}{40} - \frac{2}{40} + \frac{25}{40} - \frac{56}{40} = \frac{30-2+25-56}{40} = \frac{-3}{40}$$

$$\text{m.c.m.}(4,20,8,5) = 40$$

$$\textcircled{2} \text{ 1) } \frac{1}{5} + \frac{1}{3} + \frac{2}{15} + 2 = \frac{3}{15} + \frac{5}{15} + \frac{2}{15} + \frac{30}{15} = \frac{3+5+2+30}{15} = \frac{40}{15} = \frac{8}{3}$$

\swarrow $30 = 15:1 \cdot 2$

Ten en cuenta que
 $2 = \frac{2}{1}$

$$\text{m.c.m.}(5,3,15,1) = 15$$

$$\text{2) } \frac{7}{5} + \frac{2}{30} + \frac{1}{6} + 3 = \frac{42}{30} + \frac{2}{30} + \frac{5}{30} + \frac{90}{30} = \frac{42+2+5+90}{30} = \frac{139}{30}$$

$$3 = \frac{3}{1}$$

$$\text{m.c.m.}(5,30,6,2) = 30$$

$$\text{3) } \frac{4}{9} - \frac{5}{6} - \frac{1}{2} = \frac{8}{18} - \frac{15}{18} - \frac{9}{18} = \frac{8-15-9}{18} = \frac{-16}{18} = \frac{-8}{9}$$

$$\text{m.c.m.}(9,6,2) = 18$$

$$\text{4) } 7 + \frac{11}{7} + \frac{13}{14} - 5 = \frac{98}{14} + \frac{22}{14} + \frac{13}{14} - \frac{70}{14} = \frac{98+22+13-70}{14} = \frac{63}{14} = \frac{9}{2}$$

$$7 = \frac{7}{1} \quad \text{y} \quad 5 = \frac{5}{1}$$

$$\text{m.c.m.}(1,7,14) = 14$$

$$5) \frac{2}{3} + \frac{3}{4} = \frac{8}{12} + \frac{9}{12} = \frac{8+9}{12} = \frac{17}{12} \quad \text{m.c.m.}(3,4)=12 \quad \text{Cipri}$$

$$6) \frac{7}{8} - \frac{3}{5} + \frac{3}{4} = \frac{35}{40} - \frac{24}{40} + \frac{30}{40} = \frac{35-24+30}{40} = \frac{41}{40} \quad \text{m.c.m.}(8,5,4)=40$$

$$7) 8 + \frac{1}{2} + 3 + \frac{1}{4} + \frac{1}{8} = \frac{64}{8} + \frac{4}{8} + \frac{24}{8} + \frac{2}{8} + \frac{1}{8} = \frac{64+4+24+2+1}{8} = \frac{95}{8}$$

$8 = \frac{8}{1}$ y $3 = \frac{3}{1} \quad \text{m.c.m.}(2,2,4,8)=8$

$$8) \frac{2}{7} + \frac{1}{2} + \frac{5}{14} = \frac{4}{14} + \frac{7}{14} + \frac{5}{14} = \frac{4+7+5}{14} = \frac{16}{14} = \frac{8}{7} \quad \text{m.c.m.}(7,2,14)=14$$

$$9) \frac{1}{2} + \frac{1}{3} - \frac{1}{4} = \frac{6}{12} + \frac{4}{12} - \frac{3}{12} = \frac{6+4-3}{12} = \frac{7}{12} \quad \text{m.c.m.}(2,3,4)=12$$

③ ¿Cuánto le falta a $\frac{3}{4}$ para llegar a $\frac{5}{6}$?

Es lo mismo que:

$$\frac{3}{4} + \square = \frac{5}{6}$$

y para calcular \square tenemos que restar:

$$\frac{5}{6} - \frac{3}{4} = \frac{10}{12} - \frac{9}{12} = \frac{1}{12}$$

Solución: a $\frac{3}{4}$ le falta $\frac{1}{12}$ para llegar a $\frac{5}{6}$

Comprobación

$$\frac{3}{4} + \frac{1}{12} = \frac{9}{12} + \frac{1}{12} = \frac{10}{12} = \frac{5}{6}$$