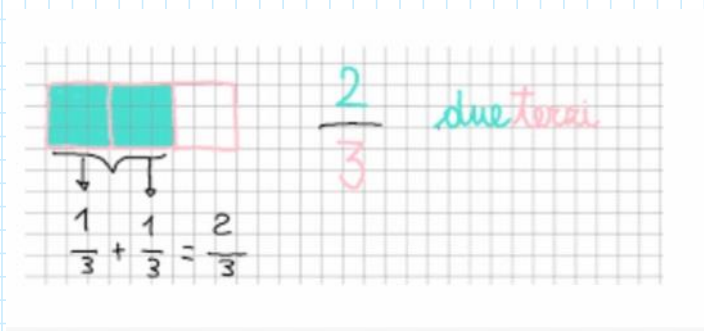


# FRAZIONI NUMERICHE



• 406  $\left(\frac{4}{5} + 2 + \frac{2}{3}\right) - \left\{\frac{10}{3} - \left[\frac{7}{5} - \left(\frac{4}{5} + \frac{2}{3} - \frac{19}{15}\right)\right]\right\} - \left[\left(2 - \frac{2}{3}\right) - \frac{4}{5}\right]$   $\frac{4}{5}$

A - B - C

$$\frac{4}{5} + \frac{2}{1} + \frac{2}{3}$$

MINIMO COMUNE DENOMINATO

= MINIMO COMUNE MULTIPLO  
(m. c. m.)

1) SCOMPORRE IN FATTORI PRIMI

$$\begin{aligned} 5 &= 5 = 5^1 \\ 1 &= 1 \\ 3 &= 3 = 3^1 \end{aligned}$$

2) BASI COMUNI E NON COMUNI

3) ESPONENTI MAGGIORI  $\rightarrow$  mcm = 3 · 5

Esempio (24 ; 10 ; 36)

$$\begin{array}{r} \textcircled{24} \\ 12 \\ 6 \\ 3 \\ 1 \end{array} \left. \begin{array}{l} 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{array} \right\} \\ 2^3 \cdot 3$$

$$10 = 2 \cdot 5$$

$$\begin{aligned} 36 &= 6^2 \\ 36 &= (3 \cdot 2)^2 \\ 36 &= 3^2 \cdot 2^2 \end{aligned}$$

$$\begin{aligned} 24 &= \textcircled{6} \cdot \textcircled{4} \\ &= 3 \cdot 2 \cdot 2^2 \\ &= 2^3 \cdot 3 \end{aligned}$$

$$\left\{ \begin{array}{l} 24 = \underline{2^3} \cdot \underline{3^1} \\ 10 = \underline{2^1} \cdot \underline{5^1} \\ 36 = \underline{2^2} \cdot \underline{3^2} \end{array} \right.$$

$$\begin{aligned} \text{mcm} &= \underline{2^3} \cdot 3^2 \cdot 5^1 \\ &= 8 \cdot 9 \cdot 5 \\ &= 40 \cdot 9 = \\ &= \underline{4 \cdot 10} \cdot 9 = 360 \end{aligned}$$

$$\frac{4}{5} + \frac{2}{1} + \frac{2}{3}$$

MINIMO COMUNE DENOMINATORE (5 ; 1 ; 3)

= MINIMO COMUNE MULTIPLO  
(m.c.m.)

1) SCOMPORRE IN FATTORI PRIMI

$$\begin{aligned} 5 &= 5 = \textcircled{5}^{\textcircled{1}} \\ 1 &= 1 \\ 3 &= 3 = \textcircled{3}^{\textcircled{1}} \end{aligned}$$

$$1 = 1$$

$$3 = 3 = \textcircled{3}^1$$

$$\text{m c a m} = 3 \cdot 5 = 15$$

$$\frac{\textcircled{4}}{5} + \frac{2}{1} + \frac{2}{3}$$

$$\frac{4 \cdot \frac{15}{5} + 2 \cdot \frac{15}{1} + 2 \cdot \frac{15}{3}}{15}$$

$$\frac{4 \cdot 3 + 2 \cdot 15 + 2 \cdot 5}{15} \rightarrow 12 + 30 + 10 = 52$$

$$\frac{52}{15} \rightarrow \begin{array}{r|l} 52 & 2 \\ 26 & 2 \\ 13 & 13 \\ 1 & \end{array} = \frac{2^2 \cdot 13}{3 \cdot 5}$$

• 406  $\left(\frac{4}{5} + 2 + \frac{2}{3}\right) - \left\{\frac{10}{3} - \left[\frac{7}{5} - \left(\frac{4}{5} + \frac{2}{3} - \frac{19}{15}\right)\right]\right\} - \left[\left(2 - \frac{2}{3}\right) - \frac{4}{5}\right]$   $\frac{4}{5}$

$$\frac{52}{15}$$
$$\frac{4 \cdot 3 + 2 \cdot 5 - 19}{15} \rightarrow 12 + 10 - 19 = 3$$
$$\frac{3}{15} = \textcircled{\frac{1}{5}}$$

$$\left\{ \frac{10}{3} - \left[ \frac{7}{5} - \frac{1}{5} \right] \right\} =$$

$$\left\{ \frac{10}{3} - \frac{6}{5} \right\} = \frac{10 \cdot 5 - 6 \cdot 3}{15} =$$

$$\frac{50 - 18}{15} = \frac{32}{15}$$

• 406  $\left( \frac{4}{5} + 2 + \frac{2}{3} \right) - \left\{ \frac{10}{3} - \left[ \frac{7}{5} - \left( \frac{4}{5} + \frac{2}{3} - \frac{19}{15} \right) \right] \right\} - \left[ \left( 2 - \frac{2}{3} \right) - \frac{4}{5} \right]$

$$\frac{52}{15}$$

$$- \frac{32}{15}$$

$$\left( \frac{2}{1} - \frac{2}{3} \right) - \frac{4}{5}$$

$$\frac{2 \cdot 3 - 2}{3} - \frac{4}{5}$$

$$\frac{4}{3} - \frac{4}{5} =$$

$$\frac{4 \cdot 5 - 4 \cdot 3}{15} =$$

$$\frac{20 - 12}{15} = \frac{8}{15}$$

$$\frac{52}{15} - \frac{32}{15} - \frac{8}{15} =$$

$$\frac{52 - 32 - 8}{15} = \frac{12}{15} = \frac{3 \cdot 2^2}{3 \cdot 5}$$

$$\frac{4}{5}$$

$$\frac{\quad}{15} = \frac{\cancel{12}}{\cancel{15}} = \frac{\overset{\curvearrowright}{3} \cdot \overset{\curvearrowright}{5}}{\overset{\curvearrowright}{3} \cdot \overset{\curvearrowright}{5}}$$
$$= \frac{\cancel{12}}{\cancel{15}} \begin{matrix} 4 \\ 5 \end{matrix} = \frac{4}{5}$$