

UPE2A le 07 novembre 2019

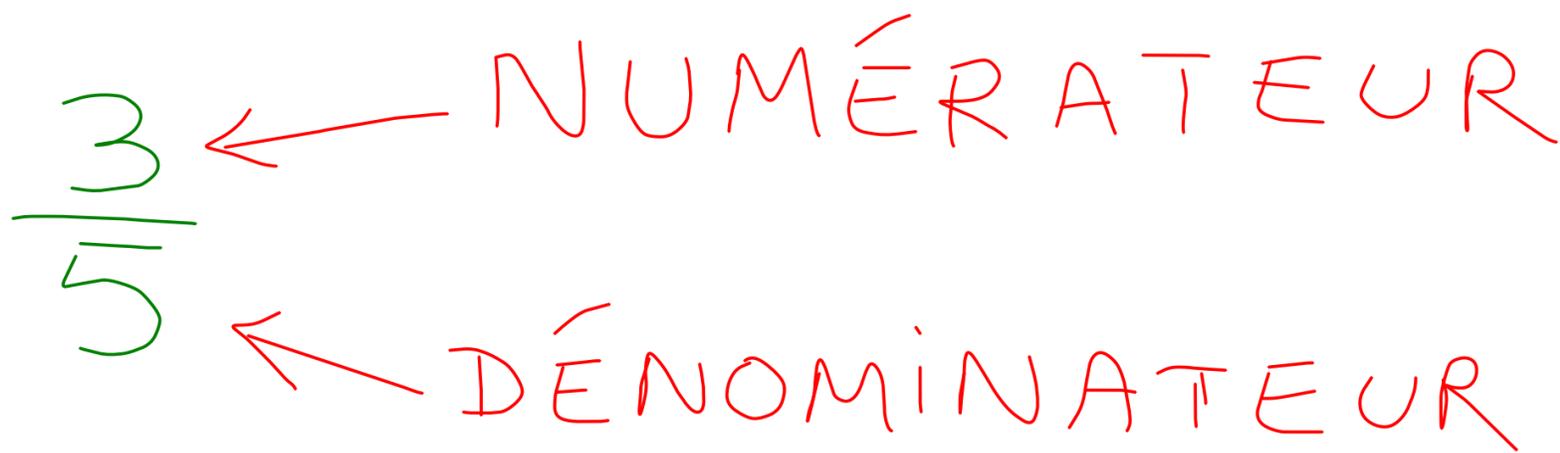
FRACTION
 $\frac{3}{5}$

trois sur cinq = trois cinquièmes

$$3 \times \frac{1}{5} = \frac{3}{5} = 3 \div 5$$



FRACTION:



$$\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0,6$$

$$28 \frac{5}{10} = 28,5$$

U dixièmes | c | m

$$\begin{array}{r} 37 \\ -30 \\ \hline 7 \end{array} \quad \begin{array}{r} 10 \\ \hline 3 \end{array}$$

• $\frac{37}{10} = 3,7$

• $\frac{285}{10} = 28,5$
↑ dixièmes

• $\frac{45}{100} = 0,45$

$$\frac{45}{100} = 0,45$$

fraction décimale → ← nombre décimal

$$27 = 27,0 = \frac{270}{10}$$

→ nombre décimal entier

$$\frac{3}{4} = \frac{1,5}{2}$$

fraction ← écriture fractionnaire

$$\frac{8}{100} ; \frac{999}{17}$$

$$\frac{11,3}{24} ; \frac{9,3}{4,5} ; \frac{18}{4,2}$$

$$\frac{18}{4,2} \xrightarrow{\times 10} \frac{180}{42}$$

Exercice ^{x10}

a) $\frac{3,7}{5} = \frac{37}{50}$

(Red arrows indicate multiplying numerator and denominator by 10)

$$\begin{array}{r} 96 \\ 16 \end{array} \bigg| \begin{array}{r} 2 \\ 48 \end{array}$$

b) $\frac{8}{9,6} = \frac{80}{96} = \frac{40 \times \cancel{2}}{48 \times \cancel{2}} = \frac{40}{48} = \frac{\cancel{8} \times 5}{\cancel{8} \times 6} = \frac{5}{6}$

(simplifier)

c) $\frac{15,7}{9,03} = \frac{1570}{903}$

(Red arrows indicate multiplying numerator and denominator by 100)

$$1 + 5 + 7 + 0 = 13$$

$$1 + 5 + 7 + 2 = 15 = 3 \times 5$$

$$1 + 5 = 6$$

d) $\frac{1572}{3} = \frac{\cancel{3} \times 524}{\cancel{3} \times 1} = \frac{524}{1} = 524$

$$2 \times 8 = 16$$

1 1
→ 4

185

× 29

$$\begin{array}{r} 185 \\ \times 29 \\ \hline 1665 \\ + 3700 \\ \hline 5365 \end{array}$$

donc $185 \times 29 = 5365$

$$9 \times 8 = 72$$

$$\begin{array}{r} 8329 \\ - 6 \\ \hline 8323 \end{array}$$

$$\begin{array}{r} 8323 \\ - 23 \\ \hline 8300 \end{array}$$

$$\begin{array}{r} 8300 \\ - 52 \\ \hline 8248 \end{array}$$

$$\begin{array}{r} 8248 \\ - 48 \\ \hline 8200 \end{array}$$

$$\begin{array}{r} 8200 \\ - 49 \\ \hline 8151 \end{array}$$

$$\begin{array}{r} 8151 \\ - 48 \\ \hline 8103 \end{array}$$

$$\begin{array}{r} 8103 \\ - 01 \\ \hline 8099 \end{array}$$

donc

$$8329 = 6 \times 1388 + 1$$

$$\begin{array}{r} 6 \\ \hline 1388 \end{array}$$

=
≈

$$8329 \div 6 \approx 1388$$

Exercice

$$\begin{aligned} \text{a) } & 42 + 45 \div 9 \\ & = 42 + 5 \\ & = 47 \end{aligned}$$

$$\begin{aligned} \text{b) } & 18 \div (4 + 2) \\ & = 18 \div 6 \\ & = 3 \end{aligned}$$

① () parenthèses

② \times et \div

③ $+$ et $-$