



Division de fractions

Exercice n°1 : Calculer les quotients suivants.

$\mathcal{A} = \frac{5}{8} \div \frac{8}{3}$	$\mathcal{B} = \frac{1}{12} \div \frac{2}{11}$	$\mathcal{C} = \frac{-6}{-7} \div \frac{1}{10}$	$\mathcal{D} = \frac{5}{-8} \div 2$
$\mathcal{E} = \frac{\frac{7}{11}}{\frac{2}{9}}$	$\mathcal{F} = \frac{\frac{9}{5}}{-8}$	$\mathcal{G} = \frac{-1}{\frac{10}{11}}$	$\mathcal{H} = \frac{\frac{-1}{-3}}{11}$

Exercice n°2 : Calculer les produits suivants et donner le résultat sous la forme d'une fraction irréductible.

$\mathcal{A} = \frac{4}{8} \div \frac{5}{4}$	$\mathcal{B} = \frac{-6}{10} \div \frac{9}{-5}$	$\mathcal{C} = \frac{8}{12} \div \frac{8}{10}$
$\mathcal{D} = \frac{\frac{-8}{6}}{\frac{-12}{7}}$	$\mathcal{E} = \frac{4}{4} \div \frac{2}{6}$	$\mathcal{F} = \frac{\frac{4}{12}}{\frac{5}{8}}$

$$\mathcal{G} = \frac{10}{8} \div \frac{11}{11}$$

$$\mathcal{H} = \frac{\frac{-7}{2}}{14}$$

$$I = \frac{\frac{6}{5}}{\frac{-3}{15}}$$

$$J = \frac{22}{7} \div \frac{33}{49}$$

$$\mathcal{K} = \frac{\frac{-11}{-9}}{\frac{-7}{10}}$$

$$\mathcal{L} = \frac{-5}{-3} \div 25$$



Correction

Exercice n°1 : Calculer les quotients suivants.

$\mathcal{A} = \frac{5}{8} \div \frac{8}{3}$ $\mathcal{A} = \frac{5}{8} \times \frac{3}{8}$ $\mathcal{A} = \frac{5 \times 3}{8 \times 8}$ $\mathcal{A} = \frac{15}{64}$	$\mathcal{B} = \frac{1}{12} \div \frac{2}{11}$ $\mathcal{B} = \frac{1}{12} \times \frac{11}{2}$ $\mathcal{B} = \frac{1 \times 11}{12 \times 2}$ $\mathcal{B} = \frac{11}{24}$	$\mathcal{C} = \frac{-6}{-7} \div \frac{1}{10}$ $\mathcal{C} = \frac{-6}{-7} \times \frac{10}{1}$ $\mathcal{C} = \frac{6 \times 10}{7 \times 1}$ $\mathcal{C} = \frac{60}{7}$	$\mathcal{D} = \frac{5}{-8} \div 2$ $\mathcal{D} = \frac{5}{-8} \times \frac{1}{2}$ $\mathcal{D} = -\frac{5 \times 1}{8 \times 2}$ $\mathcal{D} = -\frac{5}{16}$
$\mathcal{E} = \frac{\frac{7}{11}}{\frac{2}{9}}$ $\mathcal{E} = \frac{7}{11} \times \frac{9}{2}$ $\mathcal{E} = \frac{7 \times 9}{11 \times 2}$ $\mathcal{E} = \frac{63}{22}$	$\mathcal{F} = \frac{\frac{9}{5}}{-8}$ $\mathcal{F} = \frac{9}{5} \times \frac{1}{-8}$ $\mathcal{F} = -\frac{9 \times 1}{5 \times 8}$ $\mathcal{F} = -\frac{9}{40}$	$\mathcal{G} = \frac{-1}{\frac{10}{11}}$ $\mathcal{G} = -1 \times \frac{11}{10}$ $\mathcal{G} = \frac{-1 \times 11}{10}$ $\mathcal{G} = -\frac{11}{10}$	$\mathcal{F} = \frac{\frac{-1}{11}}{\frac{3}{11}}$ $\mathcal{F} = \frac{-1}{-3} \times \frac{1}{11}$ $\mathcal{F} = \frac{1 \times 1}{3 \times 11}$ $\mathcal{F} = \frac{1}{33}$

Exercice n°2 : Calculer les produits suivants et donner le résultat sous la forme d'une fraction irréductible.

$\mathcal{A} = \frac{4}{8} \div \frac{5}{4}$ $\mathcal{A} = \frac{4}{8} \times \frac{4}{5}$ $\mathcal{A} = \frac{4 \times 2 \times 2}{4 \times 2 \times 5}$ $\mathcal{A} = \frac{2}{5}$	$\mathcal{B} = \frac{-6}{10} \div \frac{9}{-5}$ $\mathcal{B} = \frac{-6}{10} \times \frac{-5}{9}$ $\mathcal{B} = \frac{3 \times 2 \times 5}{5 \times 2 \times 3 \times 3}$ $\mathcal{B} = \frac{1}{3}$	$\mathcal{C} = \frac{8}{12} \div \frac{8}{10}$ $\mathcal{C} = \frac{8}{12} \times \frac{10}{8}$ $\mathcal{C} = \frac{8 \times 2 \times 5}{2 \times 6 \times 8}$ $\mathcal{C} = \frac{5}{6}$
$\mathcal{D} = \frac{\frac{-8}{6}}{\frac{-12}{7}}$ $\mathcal{D} = \frac{-8}{6} \times \frac{7}{-12}$ $\mathcal{D} = \frac{4 \times 2 \times 7}{3 \times 2 \times 4 \times 3}$ $\mathcal{D} = \frac{7}{9}$	$\mathcal{E} = \frac{4}{4} \div \frac{2}{6}$ $\mathcal{E} = \frac{4}{4} \times \frac{6}{2}$ $\mathcal{E} = \frac{4 \times 3 \times 2}{4 \times 2}$ $\mathcal{E} = 3$	$\mathcal{F} = \frac{\frac{4}{12}}{\frac{5}{8}}$ $\mathcal{F} = \frac{4}{12} \times \frac{8}{5}$ $\mathcal{F} = \frac{4 \times 8}{3 \times 4 \times 5}$ $\mathcal{F} = \frac{8}{15}$

$$G = \frac{10}{8} \div \frac{11}{11}$$

$$G = \frac{10}{8} \times \frac{11}{11}$$

$$G = \frac{2 \times 5 \times 11}{2 \times 4 \times 11}$$

$$G = \frac{5}{4}$$

$$\mathcal{H} = \frac{-7}{\frac{2}{14}}$$

$$\mathcal{H} = \frac{-7}{2} \times \frac{1}{14}$$

$$\mathcal{H} = \frac{-7 \times 1}{2 \times 2 \times 7}$$

$$\mathcal{H} = \frac{-1}{4}$$

$$I = \frac{\frac{6}{5}}{\frac{-3}{15}}$$

$$I = \frac{6}{5} \times \frac{15}{-3}$$

$$I = -\frac{2 \times 3 \times 3 \times 5}{5 \times 3}$$

$$I = -6$$

$$J = \frac{22}{7} \div \frac{33}{49}$$

$$J = \frac{22}{7} \times \frac{49}{33}$$

$$J = \frac{2 \times 11 \times 7 \times 7}{7 \times 3 \times 11}$$

$$J = \frac{14}{3}$$

$$\mathcal{K} = \frac{\frac{-11}{-9}}{\frac{-7}{10}}$$

$$\mathcal{K} = \frac{24}{9} \times \frac{10}{-4}$$

$$\mathcal{K} = -\frac{2 \times 3 \times 4 \times 5 \times 2}{3 \times 3 \times 2 \times 2}$$

$$\mathcal{K} = -\frac{20}{3}$$

$$\mathcal{L} = \frac{-5}{-3} \div 25$$

$$\mathcal{L} = \frac{-5}{-3} \times \frac{1}{25}$$

$$\mathcal{L} = \frac{5 \times 1}{3 \times 5 \times 5}$$

$$J = \frac{1}{15}$$