Division de fractions

Exercice n°1 : Calculer les quotients suivants.

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

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

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

$G = \frac{10}{8} \div \frac{11}{11}$	$H = \frac{\frac{-7}{2}}{14}$	$I = \frac{\frac{6}{5}}{\frac{-3}{15}}$
$J = \frac{22}{7} \div \frac{33}{49}$	$K = \frac{\frac{24}{9}}{\frac{-4}{10}}$	$L = \frac{-5}{-3} \div 25$

Division de fractions

Correction

Exercice n°1 : Calculer les quotients suivants.

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

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

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

$D = \frac{7}{9}$	$E = 3$	$F = \frac{8}{15}$
$G = \frac{10}{8} \div \frac{11}{11}$ $G = \frac{10}{8} \times \frac{11}{11}$ $G = \frac{2 \times 5 \times 11}{2 \times 4 \times 11}$ $G = \frac{5}{4}$	$H = \frac{\frac{-7}{2}}{14}$ $H = \frac{-7}{2} \times \frac{1}{14}$ $H = \frac{-7 \times 1}{2 \times 2 \times 7}$ $H = \frac{-1}{4}$	$I = \frac{\frac{6}{5}}{\frac{-3}{15}}$ $I = \frac{6}{5} \times \frac{15}{-3}$ $I = -\frac{2 \times 3 \times 3 \times 5}{5 \times 3}$ $I = -6$
$J = \frac{22}{7} \div \frac{33}{49}$ $J = \frac{22}{7} \times \frac{49}{33}$ $J = \frac{2 \times 11 \times 7 \times 7}{7 \times 3 \times 11}$ $J = \frac{14}{3}$	$K = \frac{\frac{24}{9}}{\frac{-4}{10}}$ $K = \frac{24}{9} \times \frac{10}{-4}$ $K = -\frac{3 \times 2 \times 4 \times 5 \times 2}{3 \times 3 \times 4}$ $K = -\frac{20}{3}$	$L = \frac{-5}{-3} \div 25$ $L = \frac{-5}{-3} \times \frac{1}{25}$ $L = \frac{5 \times 1}{3 \times 5 \times 5}$ $L = \frac{1}{15}$