

Fiche d'exercice sur les Fractions n°4 – Collège (3^{ème} – 4^{ème})

Multiplication de fractions avec des dénominateurs différents (Facile)

$A = \frac{2}{3} \times \frac{4}{5}$	$C = \frac{1}{6} \times \frac{7}{8}$	$E = \frac{4}{7} \times \frac{5}{6}$	$G = \frac{9}{10} \times \frac{3}{7}$
$B = \frac{5}{7} \times \frac{3}{4}$	$D = \frac{3}{5} \times \frac{2}{9}$	$F = \frac{8}{3} \times \frac{5}{11}$	$H = \frac{7}{12} \times \frac{5}{8}$

Somme de fractions avec des dénominateurs différents (Moyen ++)

1) $\frac{4}{7} + \frac{5}{35} = \dots$	3) $\frac{1}{7} + \frac{3}{14} = \dots$	5) $\frac{2}{5} + \frac{3}{10} = \dots$	7) $\frac{4}{5} + \frac{3}{10} = \dots$
2) $\frac{2}{5} + \frac{4}{10} = \dots$	4) $\frac{6}{7} + \frac{3}{14} = \dots$	6) $\frac{1}{7} + \frac{7}{21} = \dots$	8) $\frac{5}{7} + \frac{8}{21} = \dots$

Calculs un peu plus complexes de fraction (Difficile)

1) $\frac{11}{5} - \frac{10}{5} \times \frac{3}{4}$	3) $\frac{7}{5} - \frac{6}{5} \times \frac{7}{4}$	5) $\frac{3}{5} - \frac{2}{5} \times \frac{3}{4}$	7) $\frac{7}{5} - \frac{6}{5} \times \frac{9}{4}$
2) $\frac{3}{5} - \frac{2}{5} \times \frac{9}{4}$	4) $\frac{3}{5} - \frac{2}{5} \times \frac{7}{4}$	6) $\frac{11}{5} - \frac{10}{5} \times \frac{7}{4}$	8) $\frac{7}{5} - \frac{6}{5} \times \frac{3}{4}$

Calculs complexes de fraction (Difficile +)

1) $A = \frac{-5}{-9} + \frac{1}{-9} \times \frac{-1}{2}$	3) $C = \frac{1}{9} - \frac{2}{9} \times \frac{5}{8}$	5) $E = \frac{3}{-4} \times \frac{-1}{-9} + \frac{-2}{-9}$	7) $G = \frac{2}{9} \times \frac{7}{-7} - \frac{5}{-7}$	9) $I = \frac{5}{6} - \frac{5}{6} \times \frac{-7}{8}$
2) $B = \frac{5}{6} \times \frac{-7}{3} - \frac{-2}{3}$	4) $D = \frac{-1}{6} \times \frac{7}{9} - \frac{-7}{9}$	6) $F = \frac{-1}{5} - \frac{-1}{5} \times \frac{-3}{7}$	8) $H = \frac{-1}{-6} - \frac{6}{-6} \times \frac{-2}{-5}$	10) $J = \frac{-1}{-8} \times \frac{-2}{-7} + \frac{-3}{-7}$
1) $A = \frac{4}{7} \times \frac{-9}{10} - \frac{-3}{70}$	3) $C = \frac{7}{3} - \frac{-2}{3} \times \frac{-1}{3}$	5) $E = \frac{-2}{16} - \frac{3}{8} \times \frac{-1}{2}$	7) $G = \frac{4}{5} \times \frac{-3}{7} - \frac{-2}{35}$	9) $I = \frac{-4}{8} - \frac{-7}{8} \times \frac{3}{4}$
2) $B = \frac{-3}{45} - \frac{3}{5} \times \frac{-2}{9}$	4) $D = \frac{4}{10} - \frac{-7}{10} \times \frac{-1}{7}$	6) $F = \frac{-1}{9} \times \frac{5}{6} - \frac{-1}{54}$	8) $H = \frac{-3}{36} - \frac{-4}{9} \times \frac{3}{4}$	10) $J = \frac{-2}{63} + \frac{-5}{9} \times \frac{2}{7}$
1) $\frac{4}{5} - \frac{6}{35} + \frac{3}{5}$	3) $\frac{2}{9} - 4$	5) $\frac{3}{4} - 5$	7) $\frac{3}{2} - \frac{5}{14} + \frac{9}{2}$	9) $\frac{8}{6} - \frac{4}{18} + \frac{2}{6}$
2) $\frac{7}{9} + 3 \times \frac{9}{18}$	4) $\frac{8}{3} - \left(\frac{7}{3} + \frac{1}{12}\right)$	6) $\frac{5}{8} - \left(\frac{9}{64} + \frac{8}{8}\right)$	8) $\frac{4}{36} + 4 \times \frac{6}{4}$	10) $\frac{8}{5} - \left(\frac{1}{5} + \frac{6}{30}\right)$

Calculs plus complexes sur les fractions (Difficile ++)

1) Calculer $A = \frac{1}{6 - \frac{3}{5}}$.	3) Calculer $A = \frac{4}{4 - \frac{1}{2}}$.	5) Calculer $A = \frac{3}{2 - \frac{3}{5}}$.
2) Calculer $A = \frac{3}{2 - \frac{1}{5}}$.	4) Calculer $A = \frac{5}{4 - \frac{2}{5}}$.	6) Calculer $A = \frac{5}{2 - \frac{5}{7}}$.