

EXERCICE 1 : Donner le résultat en écriture fractionnaire :

$A = \frac{2}{3} \times \left(\frac{7}{5} + \frac{2}{5} \right)$ $A = \frac{2}{3} \times \frac{9}{5}$ $A = \frac{2}{3} \times \frac{3 \times 3}{5}$ $A = \frac{2 \times 3}{5}$ $A = \frac{6}{5}$	$B = \left(\frac{7}{4} - \frac{3}{4} \right) \times \left(\frac{7}{5} + \frac{2}{5} \right)$	$C = \frac{17}{14} - \left(\frac{3}{2} \times \frac{5}{7} \right)$	$D = \left(\frac{7}{12} + \frac{1}{6} \right) \times \frac{3}{2}$
$E = 4 \times \left(\frac{3}{10} + \frac{3}{5} \right)$	$F = \left(\frac{10}{8} - \frac{1}{4} \right) \times \left(\frac{7}{12} + \frac{2}{3} \right)$	$G = \frac{4}{5} - \frac{1}{3} \times \frac{2}{15} + \frac{4}{45}$	$H = \frac{1}{2} \left[\frac{1}{4} - \left(\frac{1}{8} - \frac{1}{16} \right) \right]$

EXERCICE 2 : Calculer en choisissant la méthode la plus simple :

$A = \frac{4}{3} \times \left(\frac{3}{10} + \frac{3}{5} \right)$ $A = \frac{4}{3} \times \frac{3}{10} + \frac{4}{3} \times \frac{3}{5}$ $A = \frac{4}{10} + \frac{4}{5}$ $A = \frac{2 \times 2}{5 \times 2} + \frac{4}{5}$ $A = \frac{2}{5} + \frac{4}{5} = \frac{6}{5}$	$B = \frac{2}{5} \times \frac{13}{7} + \frac{2}{5} \times \frac{1}{3}$	$C = 12 \times \left(\frac{7}{3} - \frac{5}{4} \right)$	$D = \frac{3}{10} \times \frac{7}{2} - \frac{3}{4} \times \frac{9}{5}$
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EXERCICE 3 : Sachant que $a = \frac{3}{4}$ et $b = \frac{5}{2}$, calculer :

$A = 3a + 2b$ $A = 3 \times \frac{3}{4} + 2 \times \frac{5}{2}$ $A = 3 \times \frac{3}{4} + 2 \times \frac{5}{2}$ $A = \frac{9}{4} + 5 \times \frac{4}{4}$ $A = \frac{9}{4} + \frac{20}{4} = \frac{29}{4}$	$B = 4ab$	$C = (a + b)(b - a)$	$D = \frac{5}{3}a - \frac{1}{6}b$
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