Exercice : diviser 2 fractions

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Calculer et mettre le résultat sous forme irréductible :

$A = \dfrac{2}{7} \div \dfrac{6}{5}$ $\qquad$ $B = \dfrac{\frac{4}{3}}{\frac{16}{9}}$ $\qquad$ $C = \dfrac{6}{\frac{4}{3}}$ $\qquad$ $D = \dfrac{\frac{5}{2}}{3}$

Correction de l'exercice

$A = \dfrac{2}{7} \div \dfrac{6}{5} = \dfrac{2}{7} \times \dfrac{5}{6} = \dfrac{2 \times 5}{7 \times 6} = \dfrac{\cancel{2} \times 5}{7 \times 3 \times \cancel{2}} = \boxed{\dfrac{5}{21}}$.

$B = \dfrac{\frac{4}{3}}{\frac{16}{9}} = \dfrac{4}{3} \div \dfrac{16}{9} = \dfrac{4}{3} \times \dfrac{9}{16} = \dfrac{4 \times 9}{3 \times 16} = \dfrac{\cancel{4} \times \cancel{3} \times 3}{\cancel{3} \times \cancel{4} \times 4} = \boxed{\dfrac{3}{4}}$.

$C = \dfrac{6}{\frac{4}{3}} = 6 \div \dfrac{4}{3} = \dfrac{6}{1} \times \dfrac{3}{4} = \dfrac{6 \times 3}{4} = \dfrac{\cancel{2} \times 3 \times 3}{\cancel{2} \times 2} = \boxed{\dfrac{9}{2}}$.

$D = \dfrac{\frac{2}{3}}{\frac{5}{3}} = \dfrac{5}{2} \div 3 = \dfrac{5}{2} \div \dfrac{3}{1} = \dfrac{5}{2} \times \dfrac{1}{3} = \dfrac{5 \times 1}{2 \times 3} = \boxed{\dfrac{5}{6}}$.