

Exercice : multiplier des fractions

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Calculer et mettre le résultat sous forme irréductible :

a) $\frac{3}{7} \times \frac{5}{4}$

b) $6 \times \frac{7}{4}$

c) $\frac{36}{25} \times \frac{15}{24}$

d) $\frac{12}{7} \times 3 \times \frac{14}{45}$

Correction de l'exercice

a) $\frac{3}{7} \times \frac{5}{4} = \frac{3 \times 5}{7 \times 4} = \frac{15}{28}$.

b) $6 \times \frac{7}{4} = \frac{6}{1} \times \frac{7}{4} = \frac{6 \times 7}{1 \times 4} = \frac{3 \times 2 \times 7}{2 \times 2} = \frac{21}{2}$.

c) $\frac{36}{25} \times \frac{15}{24} = \frac{36 \times 15}{25 \times 24} = \frac{6 \times \cancel{6} \times 3 \times \cancel{5}}{5 \times \cancel{5} \times \cancel{6} \times 4} = \frac{6 \times 3}{5 \times 4} = \frac{3 \times 2 \times 3}{5 \times 2 \times 2} = \frac{9}{10}$.

d) $\frac{12}{7} \times 3 \times \frac{14}{45} = \frac{12 \times 3 \times 14}{7 \times 45} = \frac{4 \times 3 \times 3 \times \cancel{7} \times 2}{\cancel{7} \times 9 \times 5} = \frac{4 \times \cancel{9} \times 2}{9 \times 5} = \frac{8}{5}$.