

## mobius

## **Factoring - Simplifying Fraction Multiplication with Factors - Composite**



4			
1 Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out	$\frac{1}{30} \times \frac{3}{84}$	Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out	$\frac{15}{14}  imes \frac{1}{25}  imes \frac{40}{6}$
$ \frac{2^{4} \times 2 \times 7}{3} \times \frac{2 \times 3 \times 2}{5} \times \frac{3}{2 \times 2 \times 2 \times 3 \times 2} \qquad \frac{2^{8} \times 7}{5} \times \frac{2 \times 3}{5} \times \frac{2 \times 3}{5} \times \frac{2 \times 3}{5} \times \frac{5}{2 \times 2 \times 2 \times 3 \times 7} $	•		$\frac{1}{2\times7}\times\frac{1\times1}{5\times5}\times\frac{2\times2\times2\times5}{2\times3\times3}$
Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out $ \frac{A}{2 \times 3 \times 3 \times 5} \times \frac{3 \times 5}{2} \times \frac{2 \times 3 \times 7}{7}  \frac{B}{3 \times 3 \times 5} \times \frac{3}{2 \times 2 \times 3 \times 3 \times 5} \times \frac{3}{2} \times \frac{2 \times 3 \times 3 \times 7}{7} $	2 7	what factors in this fraction multiplication can be cancelled out $\frac{5}{2\times3\times7}\times\frac{3}{2}$	$ \frac{5}{12} \times \frac{21}{2} \times \frac{8}{35} $ $ \frac{\times 7}{2} \times \frac{2 \times 2 \times 2}{5 \times 7} $ $ \frac{2 \times 2 \times 2 \times 2}{5 \times 7} $
Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out  5 Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out	1 84	Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out	$\frac{90}{3} \times \frac{1}{12} \times \frac{6}{9}$
$ \frac{\cancel{8} \times 11}{\cancel{3} \times \cancel{3} \times \cancel{3}} \times \frac{\cancel{2} \times \cancel{2}}{\cancel{1}} \times \frac{\cancel{3} \times \cancel{7}}{\cancel{2} \times \cancel{13} \times \cancel{3} \times \cancel{3}} \times \frac{\cancel{3} \times \cancel{3} \times \cancel{3}}{\cancel{3} \times \cancel{3}} $ $ \frac{\cancel{3} \times \cancel{3} \times \cancel{7}}{\cancel{3} \times \cancel{3}} \times \frac{\cancel{2}}{\cancel{2}} \times \frac{\cancel{3} \times \cancel{7}}{\cancel{2} \times \cancel{2} \times \cancel{3} \times \cancel{7}} $	$\frac{7}{2} \times \frac{2}{1} \times \frac{7}{2 \times 2 \times 3 \times 7}$	\ × × ×	
multiplication can be cancelled out	$\frac{18}{24} \times \frac{2}{5}$ $\frac{2 \times 3 \times 3}{2 \times 2 \times 2 \times 3} \times \frac{2}{5}$	$\begin{array}{c} \textbf{8} & \text{Use factorization to} \\ & \text{simplify by showing what} \\ & \text{factors in this fraction} \\ & \text{multiplication can be} \\ & \text{cancelled out} \\ \\ \textbf{4} & \times \begin{array}{c} 3 \\ - \end{array} \times \begin{array}{c} 8 \\ - \end{array} \times \begin{array}{c} 72 \\ \end{array}$	$\frac{A}{2} \times \frac{3}{1} \times \frac{2 \times 2}{5 \times 2 \times 2 \times 3 \times 3 \times 3}$ $\frac{B}{2 \times 2} \times 2 \times \frac{3}{1} \times \frac{2 \times 2}{2 \times 2 \times 2 \times 2 \times 3}$ $\frac{C}{2 \times 2} \times \frac{3}{1} \times \frac{2 \times 2 \times 2 \times 2}{2 \times 2 \times 2 \times 3 \times 3}$