Rationalising the Denominator - RED

Question	Multiply	Simplify	Simplify	Answer
$\frac{10}{\sqrt{20}}$	$\frac{10 \times \sqrt{20}}{\sqrt{20} \times \sqrt{20}}$	$\frac{10 \times 2\sqrt{5}}{20}$	$\frac{20\sqrt{5}}{20}$	$\sqrt{5}$
$\frac{\sqrt{2}}{\sqrt{8}}$	$\frac{\sqrt{2} \times \sqrt{8}}{\sqrt{8} \times \sqrt{8}}$	$\frac{\sqrt{16}}{8}$		
$\frac{5\sqrt{2}}{\sqrt{5}}$	$\frac{5\sqrt{2} \times \sqrt{5}}{\sqrt{5} \times \sqrt{5}}$			
$\frac{5}{3\sqrt{7}}$	$\frac{5 \times \sqrt{7}}{3\sqrt{7} \times \sqrt{7}}$			
$\frac{4}{2\sqrt{2}}$				
$\frac{4}{6\sqrt{7}}$				
$\frac{5}{3\sqrt{8}}$				
$\frac{7}{9\sqrt{3}}$				
$\frac{1}{3\sqrt{18}}$				
$\frac{7}{3\sqrt{24}}$				
$\frac{9}{18\sqrt{3}}$				
$\frac{2}{4\sqrt{45}}$				
$\frac{3\sqrt{4}}{2\sqrt{5}}$				
$\frac{3+\sqrt{3}}{4-\sqrt{3}}$	$\frac{(3+\sqrt{3})(4+\sqrt{3})}{(4-\sqrt{3})(4+\sqrt{3})}$			
$\frac{4-\sqrt{2}}{5+\sqrt{2}}$				
$\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$				

Rationalising the Denominator – AMBER

Cut out the below surds and match the questions to their answers.
No matching answer? Check your working out!

Question	Question	Answer	Answer
$\frac{\mathbf{10}}{\sqrt{\mathbf{20}}}$	$\frac{\mathbf{1}}{\mathbf{3}\sqrt{\mathbf{18}}}$	$\frac{1}{2}$	$4-\sqrt{15}$
$\frac{\sqrt{\mathbf{2}}}{\sqrt{\mathbf{8}}}$	$\frac{\mathbf{7}}{\mathbf{3}\sqrt{\mathbf{24}}}$	$\frac{5\sqrt{7}}{21}$	$\sqrt{10}$
$\frac{\mathbf{5}\sqrt{\mathbf{2}}}{\sqrt{\mathbf{5}}}$	$\frac{\mathbf{9}}{\mathbf{18}\sqrt{\mathbf{3}}}$	$\sqrt{2}$	$\frac{5\sqrt{2}}{12}$
$\frac{\mathbf{5}}{\mathbf{3}\sqrt{\mathbf{7}}}$	$\frac{\mathbf{2}}{\mathbf{4}\sqrt{\mathbf{45}}}$	$\frac{15+7\sqrt{3}}{13}$	$\frac{7\sqrt{3}}{27}$
$\frac{\mathbf{4}}{\mathbf{2}\sqrt{\mathbf{2}}}$	$\frac{\mathbf{3}\sqrt{\mathbf{4}}}{\mathbf{2}\sqrt{\mathbf{5}}}$	$\frac{2\sqrt{7}}{21}$	$\frac{\sqrt{2}}{18}$
$\frac{\mathbf{4}}{\mathbf{6}\sqrt{\mathbf{7}}}$	$\frac{\mathbf{3}+\sqrt{\mathbf{3}}}{\mathbf{4}-\sqrt{\mathbf{3}}}$	$\frac{3\sqrt{5}}{5}$	$\frac{7\sqrt{6}}{36}$
$\frac{\mathbf{5}}{\mathbf{3}\sqrt{\mathbf{8}}}$	$\frac{\mathbf{4}-\sqrt{\mathbf{2}}}{\mathbf{5}+\sqrt{\mathbf{2}}}$	$\frac{22-9\sqrt{2}}{23}$	$\frac{\sqrt{3}}{6}$
$\frac{\mathbf{7}}{\mathbf{9}\sqrt{\mathbf{3}}}$	$\frac{\sqrt{\mathbf{5}}-\sqrt{\mathbf{3}}}{\sqrt{\mathbf{5}}+\sqrt{\mathbf{3}}}$	$\sqrt{5}$	$\frac{\sqrt{5}}{30}$

Rationalising the Denominator – GREEN

Question	Working out	Answer
$\frac{10}{\sqrt{20}}$		
$\frac{\sqrt{2}}{\sqrt{8}}$		
$\frac{5\sqrt{2}}{\sqrt{5}}$		
$\frac{5}{3\sqrt{7}}$		
$\frac{4}{2\sqrt{2}}$		
$\frac{4}{6\sqrt{7}}$		
$\frac{5}{3\sqrt{8}}$		
$\frac{7}{9\sqrt{3}}$		
$\frac{1}{3\sqrt{18}}$		
$\frac{7}{3\sqrt{24}}$		
$\frac{9}{18\sqrt{3}}$		
$\frac{2}{4\sqrt{45}}$		
$\frac{3\sqrt{4}}{2\sqrt{5}}$		
$\frac{3+\sqrt{3}}{4-\sqrt{3}}$		
$\frac{4-\sqrt{2}}{5+\sqrt{2}}$		
$\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$		