Rationalising the Denominator

Question	Working	Answer
$\dfrac{5}{\sqrt{3}}$	$\times \dfrac{\sqrt{3}}{\sqrt{3}} \qquad = \dfrac{5\sqrt{3}}{\sqrt{9}}$	$= \dfrac{5\sqrt{3}}{3}$
$\dfrac{\sqrt{3}}{\sqrt{7}}$	$\times \dfrac{\sqrt{7}}{\sqrt{7}}$	
$\dfrac{5\sqrt{5}}{\sqrt{6}}$		
$\dfrac{2+\sqrt{3}}{\sqrt{5}}$	$\times \dfrac{\sqrt{5}}{\sqrt{5}} \qquad = \dfrac{\sqrt{5}(2+\sqrt{3})}{\sqrt{25}}$	$= \dfrac{2\sqrt{5}+\sqrt{15}}{5}$
$\dfrac{3-\sqrt{5}}{\sqrt{2}}$		
$\dfrac{1+\sqrt{2}}{2\sqrt{3}}$		
$\dfrac{\sqrt{2}-3\sqrt{5}}{5\sqrt{2}}$		

Question	Working	Answer
$\dfrac{3}{2+\sqrt{2}}$	$\times \dfrac{2-\sqrt{2}}{2-\sqrt{2}} \qquad = \dfrac{3(2-\sqrt{2})}{4-\sqrt{4}}$	$= \dfrac{6-3\sqrt{2}}{2}$
$\dfrac{8}{4-\sqrt{3}}$		
$\dfrac{\sqrt{5}}{6+\sqrt{5}}$		
$\dfrac{3\sqrt{5}}{3-\sqrt{7}}$		
$\dfrac{7+\sqrt{2}}{3-\sqrt{2}}$	$\times \dfrac{3+\sqrt{2}}{3+\sqrt{2}} \qquad = \dfrac{(7+\sqrt{2})(3+\sqrt{2})}{9-\sqrt{4}}$	$= \dfrac{23+10\sqrt{2}}{7}$
$\dfrac{1-\sqrt{8}}{5+\sqrt{2}}$		
$\dfrac{a+\sqrt{b}}{a\sqrt{b}}$		