

Introducing Surds

(a)	(b)	(c)	(d)
<p>True or false: $\sqrt{17}$ is a surd</p> <p style="text-align: center;"><i>True</i></p>	<p>True or false: $\sqrt{9}$ is a surd</p> <p style="text-align: center;"><i>False</i></p>	<p>Calculate $\sqrt{7} \times \sqrt{3}$</p> <p style="text-align: center;">$\sqrt{21}$</p>	<p>Calculate $\sqrt{39} \div \sqrt{3}$</p> <p style="text-align: center;">$\sqrt{13}$</p>
(e)	(f)	(g)	(h)
<p>Calculate $(\sqrt{5})^2$</p> <p style="text-align: center;">5</p>	<p>Calculate $\frac{\sqrt{18}}{\sqrt{2}}$</p> <p style="text-align: center;">3</p>	<p>Calculate $\sqrt{7} \times \sqrt{3} \times \sqrt{2}$</p> <p style="text-align: center;">$\sqrt{42}$</p>	<p>Calculate $\frac{\sqrt{12} \times \sqrt{6}}{\sqrt{2}}$</p> <p style="text-align: center;">6</p>
(i)	(j)	(k)	(l)
<p>Show that $\sqrt{40} = 2\sqrt{10}$</p> <p style="text-align: center;">$\sqrt{40} = \sqrt{4} \times \sqrt{10}$ $= 2 \times \sqrt{10}$ $= 2\sqrt{10}$</p>	<p>Show that $\sqrt{75} = 5\sqrt{3}$</p> <p style="text-align: center;">$\sqrt{75} = \sqrt{25} \times \sqrt{3}$ $= 5 \times \sqrt{3}$ $= 5\sqrt{3}$</p>	<p>Show that $\sqrt{96} = 4\sqrt{6}$</p> <p style="text-align: center;">$\sqrt{96} = \sqrt{16} \times \sqrt{6}$ $= 4 \times \sqrt{6}$ $= 4\sqrt{6}$</p>	<p>Show that $\sqrt{245} = 7\sqrt{5}$</p> <p style="text-align: center;">$\sqrt{245} = \sqrt{49} \times \sqrt{5}$ $= 7 \times \sqrt{5}$ $= 7\sqrt{5}$</p>