

Fill in the Blanks

Simplifying Surds

Square Numbers	1	4	9	16	25	36	49	64	81	100
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Question	Largest Square Number Factor	Split into Two Surds	Rationalise the Square Number	Answer
$\sqrt{27}$	9	$\sqrt{9} \times \sqrt{3}$	$3 \times \sqrt{3}$	$3\sqrt{3}$
$\sqrt{24}$	4	$\sqrt{4} \times \sqrt{6}$	$2 \times \sqrt{6}$	$2\sqrt{6}$
$\sqrt{50}$	25	$\sqrt{25} \times \sqrt{2}$	$5 \times \sqrt{2}$	$5\sqrt{2}$
$\sqrt{28}$	4	$\sqrt{4} \times \sqrt{7}$	$2 \times \sqrt{7}$	$2\sqrt{7}$
$\sqrt{32}$	16	$\sqrt{16} \times \sqrt{2}$	$4 \times \sqrt{2}$	$4\sqrt{2}$
$\sqrt{45}$	9	$\sqrt{9} \times \sqrt{5}$	$3 \times \sqrt{5}$	$3\sqrt{5}$
$\sqrt{72}$	36	$\sqrt{36} \times \sqrt{2}$	$6 \times \sqrt{2}$	$6\sqrt{2}$
$\sqrt{90}$	9	$\sqrt{9} \times \sqrt{10}$	$3 \times \sqrt{10}$	$3\sqrt{10}$
$\sqrt{75}$	25	$\sqrt{25} \times \sqrt{3}$	$5 \times \sqrt{3}$	$5\sqrt{3}$
$\sqrt{200}$	100	$\sqrt{100} \times \sqrt{2}$	$10 \times \sqrt{2}$	$10\sqrt{2}$
$\sqrt{98}$	49	$\sqrt{49} \times \sqrt{2}$	$7 \times \sqrt{2}$	$7\sqrt{2}$
$\sqrt{80}$	16	$\sqrt{16} \times \sqrt{5}$	$4 \times \sqrt{5}$	$4\sqrt{5}$
$\sqrt{63}$	9	$\sqrt{9} \times \sqrt{7}$	$3 \times \sqrt{7}$	$3\sqrt{7}$
$\sqrt{147}$	49	$\sqrt{49} \times \sqrt{3}$	$7 \times \sqrt{3}$	$7\sqrt{3}$