

Surd or Not a Surd?

| Question | As a decimal or whole number | Is it a surd? | Question | As a decimal or whole number | Is it a surd? |
|-------------|------------------------------|---------------|-------------|------------------------------|---------------|
| $\sqrt{1}$ | 1 | No | $\sqrt{16}$ | 4 | No |
| $\sqrt{2}$ | 1.4142135 ... | Yes | $\sqrt{17}$ | 4.1231056 ... | Yes |
| $\sqrt{3}$ | 1.7320508 ... | Yes | $\sqrt{18}$ | 4.2426406 ... | Yes |
| $\sqrt{4}$ | 2 | No | $\sqrt{19}$ | 4.3588989 ... | Yes |
| $\sqrt{5}$ | 2.2360679 ... | Yes | $\sqrt{20}$ | 4.4721359 ... | Yes |
| $\sqrt{6}$ | 2.4494897 ... | Yes | $\sqrt{21}$ | 4.5825756 ... | Yes |
| $\sqrt{7}$ | 2.6457513 ... | Yes | $\sqrt{22}$ | 4.6904157 ... | Yes |
| $\sqrt{8}$ | 2.8284271 ... | Yes | $\sqrt{23}$ | 4.7958315 ... | Yes |
| $\sqrt{9}$ | 3 | No | $\sqrt{24}$ | 4.8989794 ... | Yes |
| $\sqrt{10}$ | 3.1622776 ... | Yes | $\sqrt{25}$ | 5 | No |
| $\sqrt{11}$ | 3.3166247 ... | Yes | $\sqrt{26}$ | 5.0990195 ... | Yes |
| $\sqrt{12}$ | 3.4641016 ... | Yes | $\sqrt{27}$ | 5.1961524 ... | Yes |
| $\sqrt{13}$ | 3.6055512 ... | Yes | $\sqrt{28}$ | 5.2915026 ... | Yes |
| $\sqrt{14}$ | 3.7416573 ... | Yes | $\sqrt{29}$ | 5.3851648 ... | Yes |
| $\sqrt{15}$ | 3.8729833.. | Yes | $\sqrt{30}$ | 5.4772255 ... | Yes |