## What is a surd?



A rational number can be expressed as an exact fraction in the form  $\frac{a}{b}$ ,

Reminder: An integer is a positive or negative whole number

$$0.5 = \frac{1}{2}$$

If a number cannot be written as a fraction it is irrational

Example: 
$$\pi = 3.14....$$
 cannot be expressed as an exact fraction

$$\frac{\text{Not surds}}{\sqrt{4}}$$

$$\sqrt[3]{8} = 2$$

Note: If a question asks for the exact value you must use the surd form, not a decimal approximation.

