

# SQUARE ROOTS

## A WHAT ARE SQUARE ROOTS?

### A.1 CALCULATING SQUARE ROOTS OF PERFECT SQUARES

Ex 1: Calculate:

$$\sqrt{4} = \square$$

Ex 2: Without using a calculator, calculate:

$$\sqrt{36} = \square$$

Ex 3: Calculate:

$$\sqrt{64} = \square$$

Ex 4: Calculate:

$$\sqrt{49} = \square$$

Ex 5: Calculate:

$$\sqrt{100} = \square$$

Ex 6: Calculate:

$$\sqrt{81} = \square$$

Ex 7: Calculate:

$$\sqrt{0} = \square$$

### A.2 CALCULATING SQUARE ROOTS OF FRACTIONS

Ex 8: Write in fraction form:

$$\sqrt{\frac{1}{4}} = \square$$

Ex 9: Write in fraction form:

$$\sqrt{\frac{1}{25}} = \square$$

Ex 10: Write in fraction form:

$$\sqrt{\frac{1}{9}} = \square$$

Ex 11: Write in fraction form:

$$\sqrt{\frac{1}{16}} = \square$$

Ex 12: Write in fraction form:


$$\sqrt{\frac{9}{16}} = \square$$

Ex 13: Write in fraction form:


$$\sqrt{\frac{4}{9}} = \square$$

## B CALCULATING SQUARE ROOTS


### B.1 USING A CALCULATOR

Ex 14:  Using a calculator, evaluate  $\sqrt{2}$  (round to 2 decimal places).


$$\sqrt{2} \approx \square$$

Ex 15:  Using a calculator, evaluate  $\sqrt{10}$  (round to 2 decimal places).

$$\sqrt{10} \approx \square$$

Ex 16:  Using a calculator, evaluate  $\sqrt{50}$  (round to 2 decimal places).

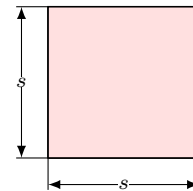
$$\sqrt{50} \approx \square$$

Ex 17:  Using a calculator, evaluate  $\sqrt{0.5}$  (round to 2 decimal places).

$$\sqrt{0.5} \approx \square$$

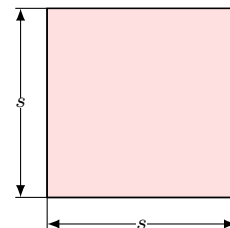
### B.2 FINDING THE SIDE LENGTH OF A SQUARE

Ex 18: The area of a square is  $2 \text{ m}^2$ . What is the length of the side of the square,  $s$ ?



$$s \approx \square \text{ m (round your answer to 2 decimal places)}$$

Ex 19: The area of a square is  $10 \text{ m}^2$ . What is the length of the side of the square,  $s$ ?



$$s \approx \square \text{ m (round your answer to 2 decimal places)}$$