SQUARE ROOTS

A DEFINITION

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).

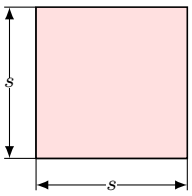
$$\sqrt{50} \approx \square$$

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

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

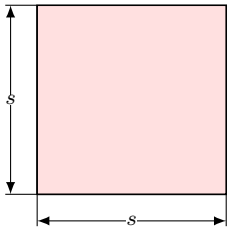
B.2 FINDING THE SIDE LENGTH OF A SQUARE

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



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

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



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