

Numbers - Squares & Roots

Textbook Pages 8, 9, 10

5. Find the area of a square with each side length.

- a) 8 units b) 10 units c) 3 units

10. Use a diagram to show that each number below is a square number.

- a) 1 b) 144
c) 121 d) 900

11. Find the side length of a square with each area.

- a) 100 m^2 b) 64 cm^2
c) 81 m^2 d) 400 cm^2

12. Which of these numbers is a perfect square?

How do you know?

- a) 10 b) 50
c) 81 d) 20

14. I am a square number.

The sum of my digits is 9.

What square numbers might I be?

15. These numbers are not square numbers. Which two consecutive square numbers is each number between?

Describe the strategy you used.

- a) 12 b) 40
c) 75 d) 200

19. Lee is planning to fence a square kennel for her dog.

Its area must be less than 60 m^2 .

a) Sketch a diagram of the kennel.

b) What is the kennel's greatest possible area?

c) Find the side length of the kennel.

d) How much fencing is needed?

e) One metre of fencing costs \$10.00.

What is the cost of the fencing?

What assumptions do you make?

