

Grade 8 Mathematics

Worksheet: Sections 1.1 -1.2

Lesson 1.1: Square Numbers and Area Models

1. Find the area of a square with each side length.
 - a) 7 units
 - b) 11 units

2. Show that 16 is a square number. Use a diagram, symbols, and words.

3. Which of these numbers is a perfect square? How do you know?
 - a) 14
 - b) 60
 - c) 36

4. These numbers are not square numbers.
Which two consecutive square numbers is each number between?
 - a) 7
 - b) 30
 - c) 50
 - d) 90

5. I am a two-digit square number. The sum of my digits is 13.
What square number am I?

6. A square patio has area 225 m^2 .
 - a) Find the dimensions of the patio.
 - b) The owner wants to put lights around the patio. How many metres of lighting is needed?
 - c) Each string of lights is 25 m long. How many strings of lights are needed?