## **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>b)</b> 11 units	<b>b)</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?				
<b>a)</b> 14	<b>b)</b> 60	<b>c)</b> 36		
4. These numbers are not square numbers. Which two consecutive square numbers is each number between?				
<b>a)</b> 7	<b>b)</b> 30	<b>c)</b> 50	<b>d)</b> 90	
5. I am a two-digit square number. The sum of my digits is 13. What square number am I?				
<b>6.</b> A square patio has area 225 m <sup>2</sup> .				
a) Find the dimensions of the patio.				
<b>b)</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?				
	a) 7 units  Show that 16 is a  Which of these n  a) 14  These numbers a Which two conse  a) 7  I am a two-digit s What square num  A square patio ha  a) Find the dime  b) The owner waneeded?	<ul> <li>a) 7 units</li> <li>Show that 16 is a square number which of these numbers is a period a) 14</li> <li>b) 60</li> <li>These numbers are not square in which two consecutive square in which two consecutive square in which two digit square number what square number am I?</li> <li>A square pation has area 225 m².</li> <li>a) Find the dimensions of the publishmeeded?</li> </ul>	a) 7 units  b) 11 units  Show that 16 is a square number. Use a diagram,  Which of these numbers is a perfect square? How  a) 14  b) 60  c) 36  These numbers are not square numbers.  Which two consecutive square numbers is each number to b) 30  c) 50  I am a two-digit square number. The sum of my digwhat square number am I?  A square patio has area 225 m².  a) Find the dimensions of the patio.  b) The owner wants to put lights around the pation needed?	a) 7 units b) 11 units  Show that 16 is a square number. Use a diagram, symbols, and words.  Which of these numbers is a perfect square? How do you know?  a) 14 b) 60 c) 36  These numbers are not square numbers. Which two consecutive square numbers is each number between?  a) 7 b) 30 c) 50 d) 90  I am a two-digit square number. The sum of my digits is 13. What square number am I?  A square patio has area 225 m².  a) Find the dimensions of the patio.  b) The owner wants to put lights around the patio. How many metres of lightineeded?