

Chapter 1 Pythagorean Theorem I The Meaning

Worksheet A Guided Practice

Name: _____ Grade: _____ Date: _____

1. Square Numbers

Fill in the blanks.

a.

$$5^2 = 5 \times 5 = \underline{\hspace{2cm}}$$

b.

$$6^2 = 6 \times 6 = \underline{\hspace{2cm}}$$

c.

$$9^2 = 9 \times 9 = \underline{\hspace{2cm}}$$

d.

$$10^2 = 10 \times 10 = \underline{\hspace{2cm}}$$

2. Square Roots

Fill in the blanks.

a.

$$\sqrt{25} = \underline{\hspace{2cm}}$$

b.

$$\sqrt{36} = \underline{\hspace{2cm}}$$

c.

 $\sqrt{81} = \underline{\hspace{2cm}}$

d.

 $\sqrt{100} = \underline{\hspace{2cm}}$

3. Parts of a Right Triangle

Fill in the blanks.

a. The two sides that form the right angle are called the _____.

b. The side across from the right angle is called the _____.

c. The hypotenuse is the _____ side of a right triangle.

4. Find the Hypotenuse

A right triangle has legs 6 cm and 8 cm.

$$6^2 + 8^2 = c^2$$

$$36 + 64 = c^2$$

$$100 = c^2$$

$$c = \sqrt{100}$$

$c =$ _____

The hypotenuse is: _____
