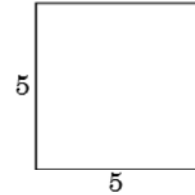


Similarity 4 – Similar Squares

7.04

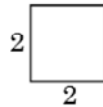
1. Are these squares similar?



- a. What is the ratio of a pair of corresponding sides?
- b. What is the ratio of the areas?
- c. What relationship exists between ratios of sides and ratios of areas?

2. Are all squares similar? Explain.

3. Given the square at right.



Perimeter= ____ Area= ____

- a. Double the size of each side.
Draw a picture of the new square.
Label the sides.

New Perimeter= ____ New Area= ____
How many times bigger is the
Perimeter: _____ Area: _____

- b. Triple the size of each side
of the original square. Draw
a picture of the new square
and label it.

New Perimeter= ____ New Area= ____
Compared to the original square,
how many times bigger is the

Perimeter: _____ Area: _____

- c. Make the side of the original square four times bigger. Draw picture.
- d. If the original square is made "n" times bigger,

New Perimeter= ____ New Area= ____ New Perimeter= ____ New Area= ____
How many times bigger is the How many times bigger is the
Perimeter: _____ Area: _____ Perimeter: _____ Area: _____

4. If a gold leaf square is worth \$100, how much is a golf leaf square worth if its sides are 10 times bigger?