



# Discovering Squares and Squares Roots

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Use colored square tiles to make a square with an area of 16. What is the length of a side of your square? \_\_\_\_\_ Therefore, the square root of 16 equals \_\_\_\_\_ .
2. Use colored square tiles to make a square with an area as close to 12 as possible but not greater than 12. What is the length of a side of the largest square you can make? \_\_\_\_\_ Therefore, the square root of 12 is greater than \_\_\_\_\_ but less than \_\_\_\_\_ .
3. Make a square with a side length of 5. What is the area of the square? \_\_\_\_\_ Therefore,  $5^2 =$  \_\_\_\_\_, and the square root of 25 = \_\_\_\_\_.
4. What is the largest square you can make using 40 tiles? \_\_\_\_\_ What does this tell us about the square root of 40? \_\_\_\_\_  
\_\_\_\_\_
5. If I want the side length of a square to be between 5 and 6, what is one possible value for the area of the square? \_\_\_\_\_ How do you know? \_\_\_\_\_  
\_\_\_\_\_
6. Draw a number line, and plot the square root of 14 and the square root of 8.

