

Name: _____

Period _____

Perfect Squares Tiles Activity

Learning Target: _____

1. Using the square tiles, make the smallest perfect square you can.

- a. How many tiles did you use?
- b. What are the dimensions of your square (length and width)?

2. Using more tiles, make the next smallest perfect square you can.

- a. How many tiles did you use?
- b. What are the dimensions of your square (length and width)?

3. Make the next smallest perfect square you can.

- a. How many tiles did you use?
- b. What are the dimensions of your square (length and width)?

A Number that is a Perfect	Dimensions of the Square (length x width)	What is the Square Root of the Perfect Square Number?
Example: 1	$1 \times 1 = 1^2$	1

4. What does it mean to square a number?

5. What does it mean to take the square root of a number? Think back to your tiled squares, what part of the diagram represents the square root?

Name: _____

Period _____

Perfect Cubed Sugar Activity

1. Using the sugar cubes, make the smallest perfect cube you can.
 - a. How many cubes did you use?
 - b. What are the dimensions of the cubes length?
2. Using more sugar cubes, make the next smallest perfect cube you can.
 - a. How many cubes did you use?
 - b. What are the dimensions of the cubes length?
3. Make the next smallest perfect cube you can.
 - a. How many cubes did you use?
 - b. What are the dimensions of the cubes length?

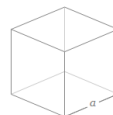
A Number that is a Perfect	Dimensions of the Cube (a^3)	What is the Cube Root of the Perfect Cube Number?
Example: 1	$1 \times 1 \times 1 = 1^3$	1

Cube
Solve for volume -

$$V = a^3$$

a Edge

Enter value



4. What does it mean to cube a number?

5. What does it mean to take the cube root of a number? Think back to your sugar cubes, what part of the diagram represents the cubed root?
