In this tutorial, I'll explore square numbers, perfect squares and square roots.

- Using the values 5 and 8, how would I explain the phrase… *square a number?*

- How would I define a *square number?*

- How could I use my understanding of *area* to model the *square numbers* 25 and 64?

Any whole number that can be represented as the area of a square with a whole number side length is a *perfect square.*

- How would I use my area models from the previous question to explain a *perfect square?*

If the area of a square is 49 square units…

- How would I explain my thinking for determining the *side length* of the square?

Area = 49 square units

- How would I compare the *side length* of the square to the *area* of the square?

- How would I explain the *square root* of a number?

- How would I demonstrate calculating the *square root* of 25 and 64 ?
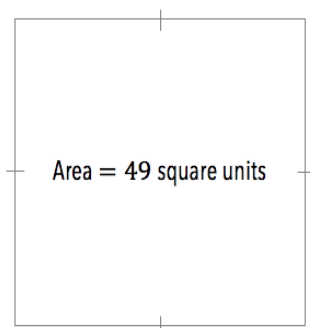
Squares and Square Roots

Which statements do I feel confident explaining and demonstrating?

Which statements do I <u>not</u> feel confident explaining and demonstrating?

✓ I can <u>explain</u> how I square a number

✓ I can <u>define</u> a square number

✓ I can use area to <u>model</u> a square number

✓ I can <u>explain</u> and <u>write</u> examples of numbers that are perfect squares

✓ I can <u>explain</u> the square root of a number

✓ I can <u>demonstrate</u> how I determine the square root of a number

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