## Unit 8 Lesson 3: Rational and Irrational Numbers

### 1 Algebra Talk: Positive Solutions (Warm up)

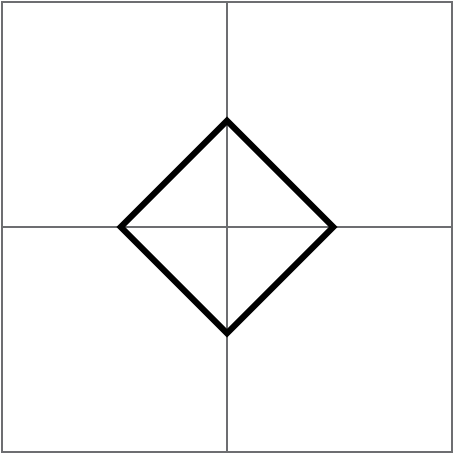
#### Student Task Statement

Find a positive solution to each equation:

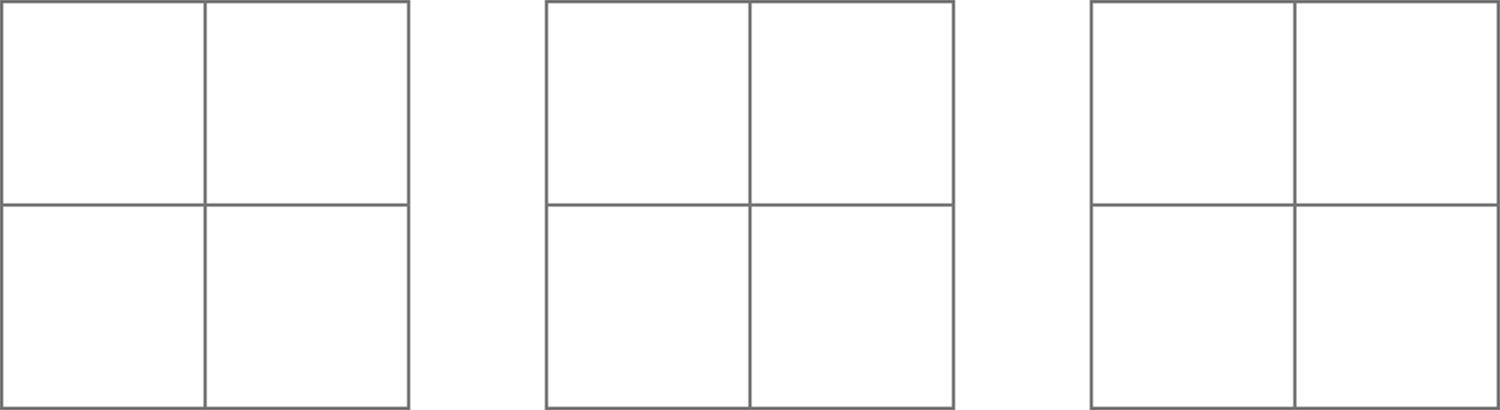
### 2 Three Squares

#### Images for Launch





#### Student Task Statement



1. Draw 3 squares of different sizes with vertices aligned to the vertices of the grid.
2. For each square:
   1. Label the area.
   2. Label the side length.
   3. Write an equation that shows the relationship between the side length and the area.

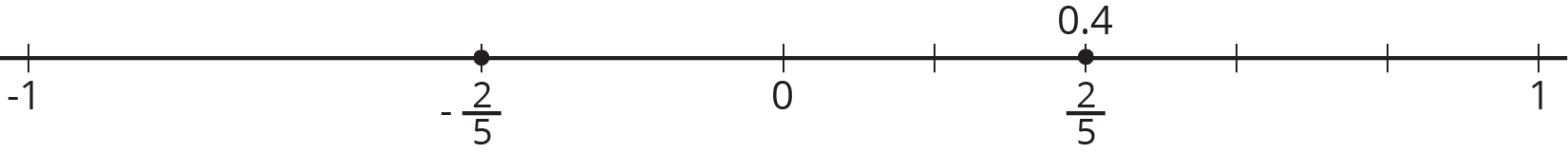
### 3 Looking for a Solution

#### Student Task Statement

Are any of these numbers a solution to the equation ? Explain your reasoning.

* 1

#### Activity Synthesis



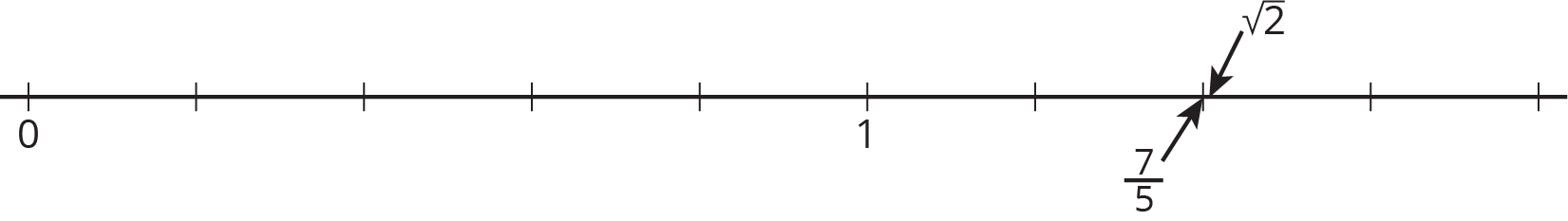
### 4 Looking for

#### Student Task Statement

A **rational number** is a fraction or its opposite (or any number equivalent to a fraction or its opposite).

1. Find some more rational numbers that are close to .
2. Can you find a rational number that is exactly ?

#### Activity Synthesis





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