## Unit 4 Lesson 2: Truth and Equations

### 1 Three Letters (Warm up)

#### Student Task Statement

1. The equation could be true or false.
   1. If is 3, is 4, and is 5, is the equation true or false?
   2. Find new values of , , and that make the equation true.
   3. Find new values of , , and that make the equation false.
2. The equation could be true or false.
   1. If is 3, is 4, and is 12, is the equation true or false?
   2. Find new values of , , and that make the equation true.
   3. Find new values of , , and that make the equation false.

### 2 Storytime

#### Student Task Statement

Here are three situations and six equations. Which equation best represents each situation? If you get stuck, consider drawing a diagram.

1. After Elena ran 5 miles on Friday, she had run a total of 20 miles for the week. She ran miles before Friday.
2. Andre’s school has 20 clubs, which is five times as many as his cousin’s school. His cousin’s school has clubs.
3. Jada volunteers at the animal shelter. She divided 5 cups of cat food equally to feed 20 cats. Each cat received cups of food.

### 3 Using Structure to Find Solutions

#### Student Task Statement

Here are some equations that contain a **variable** and a list of values. Think about what each equation means and find a **solution** in the list of values. If you get stuck, consider drawing a diagram. Be prepared to explain why your solution is correct.

List:

0.01

0.1

0.5

1

2

8.5

9.5

16.7

20

400

600

1400



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