## Unit 4 Lesson 12: Equations with Unknowns

### WU True or False: Making Tens (Warm up)

#### Student Task Statement

Decide if each statement is true or false. Be prepared to explain your reasoning.

### 1 Number Line Riddles

#### Student Task Statement

Solve riddles to find the mystery number.

For each riddle:

* Write an equation that represents the riddle and write a ? for the unknown.
* Write the mystery number. Represent the equation on the number line.

1. I started at 15 and jumped 17 to the right. Where did I end?

* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. I started at a number and jumped 20 to the left. I ended at 33. Where did I start?

* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. I started on 42 and ended at 80. How far did I jump?

* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. I started at 76 and jumped 27 to the left. Where did I end?

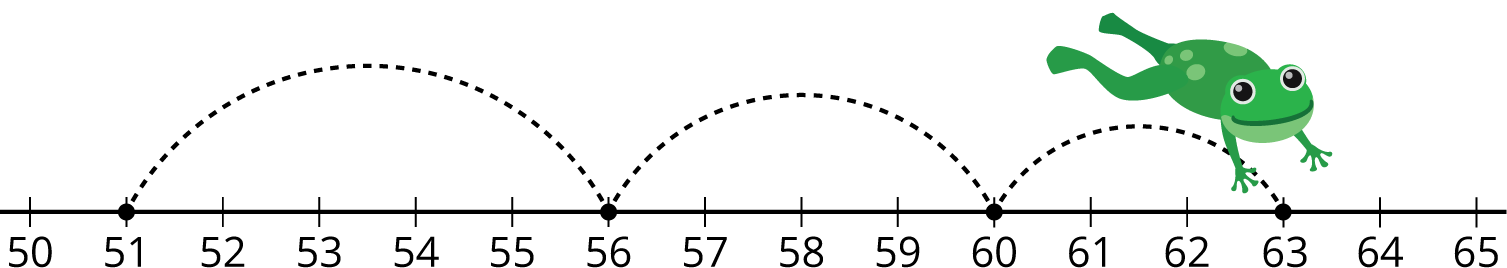
* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. I started at a number and jumped 19 to the right. I ended at 67. Where did I start?

* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. I started at 92 and ended at 33. How far did I jump?

* Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mystery number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



### 2 Make the Equations True

#### Student Task Statement

Find the number that makes each equation true.

Show your thinking on the number line.



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