## Learning Targets

### Writing and Solving Equations

### Lesson 1: Relationships between Quantities

* I can think of ways to solve some more complicated word problems.

### Lesson 2: Reasoning about Contexts with Tape Diagrams

* I can explain how a tape diagram represents parts of a situation and relationships between them.
* I can use a tape diagram to find an unknown amount in a situation.

### Lesson 3: Reasoning about Equations with Tape Diagrams

* I can match equations and tape diagrams that represent the same situation.
* If I have an equation, I can draw a tape diagram that shows the same relationship.

### Lesson 4: Reasoning about Equations and Tape Diagrams (Part 1)

* I can draw a tape diagram to represent a situation where there is a known amount and several copies of an unknown amount and explain what the parts of the diagram represent.
* I can find a solution to an equation by reasoning about a tape diagram or about what value would make the equation true.

### Lesson 5: Reasoning about Equations and Tape Diagrams (Part 2)

* I can draw a tape diagram to represent a situation where there is more than one copy of the same sum and explain what the parts of the diagram represent.
* I can find a solution to an equation by reasoning about a tape diagram or about what value would make the equation true.

### Lesson 6: Distinguishing between Two Types of Situations

* I understand the similarities and differences between the two main types of equations we are studying in this unit.
* When I have a situation or a tape diagram, I can represent it with an equation.

### Lesson 7: Reasoning about Solving Equations (Part 1)

* I can explain how a balanced hanger and an equation represent the same situation.
* I can find an unknown weight on a hanger diagram and solve an equation that represents the diagram.
* I can write an equation that describes the weights on a balanced hanger.

### Lesson 8: Reasoning about Solving Equations (Part 2)

* I can explain how a balanced hanger and an equation represent the same situation.
* I can explain why some balanced hangers can be described by two different equations, one with parentheses and one without.
* I can find an unknown weight on a hanger diagram and solve an equation that represents the diagram.
* I can write an equation that describes the weights on a balanced hanger.

### Lesson 9: Dealing with Negative Numbers

* I can use the idea of doing the same to each side to solve equations that have negative numbers or solutions.

### Lesson 10: Different Options for Solving One Equation

* For an equation like , I can solve it in two different ways: by first dividing each side by 3, or by first rewriting using the distributive property.
* For equations with more than one way to solve, I can choose the easier way depending on the numbers in the equation.

### Lesson 11: Using Equations to Solve Problems

* I can solve story problems by drawing and reasoning about a tape diagram or by writing and solving an equation.

### Lesson 12: Solving Problems about Percent Increase or Decrease

* I can solve story problems about percent increase or decrease by drawing and reasoning about a tape diagram or by writing and solving an equation.

### Lesson 13: Using Equations to Solve for Unknown Angles

* I can write an equation to represent a relationship between angle measures and solve the equation to find unknown angle measures.



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