

# Learning Targets

## Introducing Proportional Relationships

### Lesson 1: One of These Things Is Not Like the Others

- I can use equivalent ratios to describe scaled copies of shapes.
- I know that two recipes will taste the same if the ingredients are in equivalent ratios.

### Lesson 2: Introducing Proportional Relationships with Tables

- I can use a table to reason about two quantities that are in a proportional relationship.
- I understand the terms proportional relationship and constant of proportionality.

### Lesson 3: More about Constant of Proportionality

- I can find missing information in a proportional relationship using a table.
- I can find the constant of proportionality from information given in a table.

### Lesson 4: Proportional Relationships and Equations

- I can write an equation of the form  $y = kx$  to represent a proportional relationship described by a table or a story.
- I can write the constant of proportionality as an entry in a table.

### Lesson 5: Two Equations for Each Relationship

- I can find two constants of proportionality for a proportional relationship.
- I can write two equations representing a proportional relationship described by a table or story.

### Lesson 6: Using Equations to Solve Problems

- I can find missing information in a proportional relationship using the constant of proportionality.
- I can relate all parts of an equation like  $y = kx$  to the situation it represents.

### Lesson 7: Comparing Relationships with Tables

- I can decide if a relationship represented by a table could be proportional and when it is definitely not proportional.

### **Lesson 8: Comparing Relationships with Equations**

- I can decide if a relationship represented by an equation is proportional or not.

### **Lesson 9: Solving Problems about Proportional Relationships**

- I can ask questions about a situation to determine whether two quantities are in a proportional relationship.
- I can solve all kinds of problems involving proportional relationships.

### **Lesson 10: Introducing Graphs of Proportional Relationships**

- I know that the graph of a proportional relationship lies on a line through  $(0, 0)$ .

### **Lesson 11: Interpreting Graphs of Proportional Relationships**

- I can draw the graph of a proportional relationship given a single point on the graph (other than the origin).
- I can find the constant of proportionality from a graph.
- I understand the information given by graphs of proportional relationships that are made up of points or a line.

### **Lesson 12: Using Graphs to Compare Relationships**

- I can compare two, related proportional relationships based on their graphs.
- I know that the steeper graph of two proportional relationships has a larger constant of proportionality.

### **Lesson 13: Two Graphs for Each Relationship**

- I can interpret a graph of a proportional relationship using the situation.
- I can write an equation representing a proportional relationship from a graph.

### **Lesson 14: Four Representations**

- I can make connections between the graphs, tables, and equations of a proportional relationship.
- I can use units to help me understand information about proportional relationships.

### **Lesson 15: Using Water Efficiently**

- I can answer a question by representing a situation using proportional relationships.