

# Chapter 2

## Direct Variation

### Mathematical Overview

Proportional relationships are introduced by having students conduct an Activity and an Investigation that relate stretch to weight using bungee jumping simulations. Students learn that an equation of the form  $y = kx$ , where  $k$  is the constant of proportionality, represents a direct variation function and that all graphs of direct variation functions are straight lines that pass through the origin. Students look for patterns in their data that can be described by the equation  $y = kx$ . They also use their equations to find unique output values for possible input values. The connection between  $k$  and the slope of the graph of their function is made. Students use the formula  $\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$  to calculate the slope of a line that passes through any two points  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$  on a coordinate grid. One other type of variation, inverse variation, of the form  $y = \frac{k}{x}$ , is presented in the Extension to this chapter.

### Lesson Summaries

#### Lesson 2.1 Activity: Bungee Jumping

In this Activity, student groups use an empty can, large paper clips, and a rubber band to simulate the testing of a bungee jump cord. Students first measure and record the weight of an object, put the object in the can, then measure and record the height of the bottom of the can. As students continue adding identical objects to the can and recording weights and heights in their tables, they create a set of data that they use to make a scatter plot. From their plot they identify a pattern and use that pattern to predict what might happen if they continued to add objects to the can. This data table and scatter plot will be used again in Lesson 2.2.

#### Lesson 2.2 Investigation: Proportional Relationships

During the Activity in Lesson 2.1, students collected data and created tables of the data. In this lesson, students extend their tables to include a column of “stretch-to-weight ratios.” They then use the ratios to find an equation that models the relationship between the weight on the rubber band and how much the band stretches. As students progress through this investigation, they come to understand how the value of  $k$ , the constant of proportionality, is related to the points they plotted in their scatter plot and are able to write an equation relating stretch to weight. They also use their equation to predict the length of stretch for a weight they did not test.

#### Lesson 2.3 Direct Variation Functions

In this lesson, students learn to recognize direct proportion relationships, and how to write equations that express direct variation. Students explore a context in which a regulating line is used to estimate the dimensions of similar rectangles. Students are given tables of data and asked to determine

if one variable is directly proportional to the other variable. They also write equations that model direct variation functions and use their equations to make predictions.

#### Lesson 2.4 R.A.P.

In this lesson, students Review And Practice solving problems that require the use of skills and concepts taught in previous math levels. The skills reviewed in this lesson are skills that are needed as a basis for solving problems throughout this course.

#### Lesson 2.5 Slope

In this lesson, students learn that the slope (ratio of the rise to the run) of a line is a measure of its steepness. They also calculate the slope of a line and interpret it as a rate of change. A connection is made between the value of the constant of proportionality  $k$  and the slope of the graph of a function. Students conclude that the slope of a line is a constant and use a formula to calculate the slope of a line that passes through any two points on a coordinate grid. They also interpret the meaning of slope for real-world relationships.

#### Chapter 2 Extension: Inverse Variation

In this Extension, students turn paper towel tubes into “telescopes.” They use their “telescopes” to collect data on the diameter of the viewing circle and the length of the telescope. They describe the pattern they see in their data and learn that the variables vary inversely. This type of relationship is called an inverse variation and can be represented by an equation of the form  $y = \frac{k}{x}$ .



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