

# Correlation of Mathematics Readers Grade 4 to the Saskatchewan Mathematics Curriculum

## Number Strand

### OUTCOME

#### N4.1.1.

Identify the missing numbers in an ordered sequence or shown on a number line.

#### Correlated Lessons:

Patterns Around Us Reader; Patterns in Nature Reader Objective 35: Recognizes a variety of number patterns (e.g., basic linear patterns such as [2,4,6,8& ]; simple repeating, growing patterns) and the rules that explain them

Patterns Around Us; Patterns in Nature Page 84, 89 Objective 07: Students will recognize, analyze, and extend a wide variety of numerical and shape patterns and verbalize the rules that explain them.

Patterns In Nature Reader Objective 39: Under that a simple numerical or shape pattern can be represented in different ways (ie, geometrically or numerically; the pattern of numbers [7,14,21,28& ] is equivalent to the mathematical relationship  $7 \times 9$ )

### OUTCOME

#### N4.2.c.

Estimate sums and differences using different strategies (e.g., front-end estimation and compensation).

#### Correlated Lessons:

Natural Disasters Reader; People Who Predict Reader Objective 31: Uses specific strategies (e.g., rounding) to estimate computations and to check the reasonableness of computational results

Natural Disasters; People Who Predict Page 60, 65 Objective 04: Students will estimate to compute answers/numbers or make predictions.

### OUTCOME

#### N4.2.d.

Explain the strategies used to determine a sum or difference.

#### Correlated Lessons:

The Bread Book Reader; The Bake Sale Reader Objective 25: Adds, subtracts, multiplies, and divides whole numbers/integers

### OUTCOME

#### N4.3.a.

Explain the strategy used to determine a product.

Correlated Lessons:

All About Sharks Reader Objective 57: Multiplies and divides whole numbers

The Bread Book Reader; The Bake Sale Reader Objective 25: Adds, subtracts, multiplies, and divides whole numbers/integers

The Bread Book; The Bake Sale Page 36, 41 Objective 01: Students will multiply and divide whole numbers and fractions.

## OUTCOME

### **N4.3.b.**

Explain the strategy used in a given solution to a product.

Correlated Lessons:

All About Sharks Reader Objective 57: Multiplies and divides whole numbers

The Bread Book Reader; The Bake Sale Reader Objective 25: Adds, subtracts, multiplies, and divides whole numbers/integers

The Bread Book; The Bake Sale Page 36, 41 Objective 01: Students will multiply and divide whole numbers and fractions.

## OUTCOME

### **N4.4.a.**

Model a multiplication problem (concretely or symbolically) using the distributive property (e.g.,  $8 * 365 = (8 * 300) + (8 * 60) + (8 * 5)$ ).

Correlated Lessons:

The Bread Book Reader Objective 29: Understands the properties of and the relationships among multiplication and division.

## OUTCOME

### **N4.4.b.**

Use concrete materials, such as base ten blocks or their pictorial representations, to represent multiplication and record the process symbolically.

Correlated Lessons:

Olympic Technology Reader; Hosting the Olympic Summer Games Reader Objective 49: Uses a variety of strategies to understand problem situations (e.g., modeling problem with diagrams or physical objects, counting backward, identifying a pattern)

## OUTCOME

### **N4.4.d.**

Estimate a product using a personal strategy (e.g.,  $2 * 243$  is close to or a little more than  $2 * 200$ , or close to or a little less than  $2 * 250$ ).

Correlated Lessons:

Natural Disasters Reader; People Who Predict Reader Objective 31: Uses specific strategies (e.g., rounding) to estimate computations and to check the reasonableness of computational results

Natural Disasters; People Who Predict Page 60, 65 Objective 04: Students will estimate to compute answers/numbers or make predictions.

## OUTCOME

### **N4.4.f.**

Solve a multiplication problem and explain the strategies or processes used.

Correlated Lessons:

All About Sharks Reader Objective 57: Multiplies and divides whole numbers

The Bread Book Reader; The Bake Sale Reader Objective 25: Adds, subtracts, multiplies, and divides whole numbers/integers

The Bread Book; The Bake Sale Page 36, 41 Objective 01: Students will multiply and divide whole numbers and fractions.

## OUTCOME

### **N4.5.c.**

Solve a division problem using a personal strategy and record the process symbolically.

Correlated Lessons:

All About Sharks Reader Objective 57: Multiplies and divides whole numbers

The Bread Book Reader; The Bake Sale Reader Objective 25: Adds, subtracts, multiplies, and divides whole numbers/integers

The Bread Book; The Bake Sale Page 36, 41 Objective 01: Students will multiply and divide whole numbers and fractions.

## OUTCOME

### **N4.5.e.**

Estimate a quotient using a personal strategy (e.g.,  $86/4$  is close to  $80/4$  or close to  $80/5$ ).

Correlated Lessons:

Natural Disasters Reader; People Who Predict Reader Objective 31: Uses specific strategies (e.g., rounding) to estimate computations and to check the reasonableness of computational results

Natural Disasters; People Who Predict Page 60, 65 Objective 04: Students will estimate to compute answers/numbers or make predictions.

## OUTCOME

### **N4.5.g.**

Explain, using examples, the relationship between division and multiplication.

Correlated Lessons:

The Bread Book Reader Objective 29: Understands the properties of and the relationships among multiplication and division.

## OUTCOME

### **N4.8.c.**

Determine the approximate solution of a problem not requiring an exact answer.

Correlated Lessons:

Natural Disasters Reader; People Who Predict Reader Objective 31: Uses specific strategies (e.g., rounding) to estimate computations and to check the reasonableness of computational results

Natural Disasters; People Who Predict Page 60, 65 Objective 04: Students will estimate to compute answers/numbers or make predictions.

## **Patterns and Relations Strand**

## OUTCOME

### **P4.2.c.**

Identify the unknown in a story problem, represent the problem with an equation, and solve the problem concretely, pictorially, or symbolically.

Correlated Lessons:

Life in the Ocean Layers Reader; All About Sharks Reader Objective 53: Solves real-world problems involving number operations (e.g., computations with units of measurement)

Olympic Technology Reader; Hosting the Olympic Summer Games Reader Objective 51: Solves real-world problems involving number operations--addition and subtraction (e.g., determines elapsed time and timed races)

The Bread Book Reader; The Bake Sale Reader Objective 27: Solves real-world problems involving number operations--multiplication/division (e.g., computations with money, computations with recipes, computations with manufacturing and service business)

## **Shape and Space Strand**

## OUTCOME

### **SS4.2.e.**

Determine which standard square unit is represented by a referent.

Correlated Lessons:

Life in the Ocean Layers Reader Objective 56: Selects and uses appropriate units of measurement, according to type and size of unit

Life in the Ocean Layers; All About Sharks Page 180, 185 Objective 19: Students will select and use appropriate units of measurement, according to the type and size of the unit. (length, height, weight)

## OUTCOME

### **SS4.4.a.**

Identify the characteristics of given symmetrical and non-symmetrical 2-D shapes.

Correlated Lessons:

Objective 46: Knows basic geometric language/properties for describing, classifying, and naming shapes (e.g., pentagon, square, circle, triangle, diamond)

## Statistics and Probability Strand

## OUTCOME

### **SP4.1.a.**

Compare graphs in which different correspondences are used and explain why the correspondence may have been used.

Correlated Lessons:

Animal Investigations Reader Objective 60: Understands that data comes in many different forms and that collecting, organizing, and displaying data can be done in several ways

Eco-Predictions; Animal Investigations Page 204, 209 Objective 22: Students will understand that data comes in many different forms and that collecting, organizing, analyzing, and displaying data can be done in many ways.

## OUTCOME

### **SP4.1.d.**

Find examples of graphs in which a many-to-one correspondence is used in print and electronic media, such as newspapers, magazines, and the Internet, and describe the correspondence used.

Correlated Lessons:

Natural Disasters Reader; People Who Predict Reader; Eco-Predictions Reader; Animal Investigations Reader Objective 32: Understands that data represent specific pieces of information about real-world objects or activities

## OUTCOME

### **SP4.1.g.**

Create and label (with axes and title) a bar graph to display a set of data using a many-to-one correspondence, and justify the choice of correspondence used.

Correlated Lessons:

Eco-Predictions Reader; Animal Investigations Reader Objective 59: Organizes, analyzes, and displays data in simple bar graphs and frequency tables

## OUTCOME

### **SP4.1.h.**

Answer a question using a graph in which data are displayed using a many-to-one correspondence.

#### Correlated Lessons:

Eco-Predictions Reader; Animal Investigations Reader Objective 59: Organizes, analyzes, and displays data in simple bar graphs and frequency tables

Natural Disasters Reader; People Who Predict Reader; Patterns Around Us Reader; Eco-Predictions Reader; Animal Investigations Objective 33: Reads, analyzes, and interprets simple bar graphs and frequency tables