

Correlation of Mathematics Readers Grade 5 to the Saskatchewan Mathematics Curriculum

Number Strand

OUTCOME

N5.2.h.

Pose a problem which requires the multiplication of 2-digit numbers and explain the strategies used to multiply the numbers.

Correlated Lessons:

Night Skies, It Started with Pizza Objective 30 Students will develop fluency in adding, subtracting, multiplying, and dividing whole numbers.

OUTCOME

N5.2.j.

Explain and justify strategies used when multiplying 2-digit numbers symbolically.

Correlated Lessons:

Night Skies, It Started with Pizza Objective 30 Students will develop fluency in adding, subtracting, multiplying, and dividing whole numbers.

OUTCOME

N5.3.d.

Generalize, relate, and apply concrete, pictorial, and symbolic strategies for dividing 3-digit whole numbers by 1-digit whole numbers.

Correlated Lessons:

Night Skies, It Started with Pizza Objective 30 Students will develop fluency in adding, subtracting, multiplying, and dividing whole numbers.

OUTCOME

N5.4.b.

Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 28 Students will use estimation to compute whole numbers.

OUTCOME

N5.4.e.

Determine an approximate solution to a problem not requiring an exact answer and explain the strategies and reasoning used (e.g., number of fish, deer, or elk required to feed a family over a winter; amount of money a family spends on groceries).

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 26 Students will develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience

My Store in the Mall, Grandpa's Birthday Present Objective 28 Students will use estimation to compute whole numbers.

OUTCOME

N5.4.f.

Explain estimation and computation strategies, including compatible numbers, compensation, and front-end rounding, and how each strategy relates to different operations.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 28 Students will use estimation to compute whole numbers.

OUTCOME

N5.4.h.

Apply and explain the choice of estimation or computation strategy such as compatible numbers, compensation, and front-end rounding.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 28 Students will use estimation to compute whole numbers.

OUTCOME

N5.6.a.

Tell a story (orally, in writing, or through movement) that explains what a concrete or pictorial representation of a part of a set, part of a region, or part of a unit of measure illustrates and record the quantity as a decimal.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 26 Students will develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience

My Store in the Mall, Grandpa's Birthday Present Objective 27 Students will solve problems that arise in mathematics and in other contexts.

OUTCOME

N5.6.c.

Recognize and generate equivalent forms (decimal or fraction) of fractions and decimals found in situations relevant to one's life, family, or community.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 25 Students will recognize and generate equivalent forms of commonly used fractions, decimals, and percents.

OUTCOME

N5.6.f.

Make and test conjectures about the relationship of equality of quantities written in decimal and fractional form (e.g., 0.7 and $\frac{7}{10}$) and verify concretely, pictorially, or logically.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 25 Students will recognize and generate equivalent forms of commonly used fractions, decimals, and percents.

OUTCOME

N5.6.g.

Use and explain personal strategies for writing decimals as fractions.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 25 Students will recognize and generate equivalent forms of commonly used fractions, decimals, and percents.

OUTCOME

N5.6.h.

Use and explain personal strategies for writing fractions with a denominator of 10, 100, or 1000 as a decimal.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 25 Students will recognize and generate equivalent forms of commonly used fractions, decimals, and percents.

OUTCOME

N5.7.b.

Use personal strategies to predict sums and differences of decimals and evaluate the effectiveness of the strategies.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 26 Students will develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience

OUTCOME

N5.7.d.

Explain how estimation can be used to determine the position of the decimal point in a sum or difference.

Correlated Lessons:

My Store in the Mall, Grandpa's Birthday Present Objective 26 Students will develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience

Patterns and Relations Strand**OUTCOME****P5.1.a.**

Describe situations from one's life, family, or community in which patterns emerge, identify assumptions made in extending the patterns, and analyze the usefulness of the pattern for making predictions.

Correlated Lessons:

The Winning Angle, Basketball Angles Objective 33 Students will describe images of objects, patterns, and paths.

OUTCOME**P5.1.d.**

Predict subsequent elements (terms or values) in a pattern (with and without concrete materials or pictorial representations) and explain the reasoning including the assumptions being made.

Correlated Lessons:

The Winning Angle, Basketball Angles Objective 33 Students will describe images of objects, patterns, and paths.

OUTCOME**P5.1.f.**

Solve problems and make decisions based upon the mathematical analysis of a pattern and other contributing factors.

Correlated Lessons:

The Winning Angle, Basketball Angles Objective 33 Students will describe images of objects, patterns, and paths.

OUTCOME**P5.2.a.**

Identify aspects of experiences from one's life, family, and community that could be represented by a variable (e.g., temperature, cost of a DVD, size of a plant, colour of shirts, or performance of a team goalie).

Correlated Lessons:

Night Skies, It Started with Pizza Objective 29 Students will represent the idea of a variable as an unknown quantity using a letter or a symbol.

Night Skies; It Started with Pizza Pages 60, 65 Objective 4 Students will understand the meaning of variables and expressions and how they are related to writing equations.

Shape and Space Strand

OUTCOME

SS5.1.d.

Critique the statement: "A rectangle with dimensions of 3 cm by 4 cm is different from a rectangle with dimensions of 2 cm by 5 cm". (Note: Any dimensions with the same perimeter could be used to demonstrate the idea of same perimeter not necessarily resulting in the same area or shape of the rectangle).

Correlated Lessons:

Towns and Cities; Amusement Parks Pages 132, 137 Objective 13 Students will measure the perimeter and area of objects.

OUTCOME

SS5.1.f.

Identify situations relevant to self, family, or community where the solution to problems would require the consideration of both area and perimeter, and solve the problems.

Correlated Lessons:

At the Aquarium, Hot Air Balloons Objective 46 Students will use geometric models to solve problems in other areas of mathematics, such as number and measurement.

The Winning Angle, Basketball Angles Objective 34 Students will use geometric models to solve problems in other areas of mathematics, such as number and measurement.

The Winning Angle, Basketball Angles Objective 35 Students will recognize geometric ideas and relationships and apply them to other disciplines and to problems that arise in the classroom or in everyday life.

The Winning Angle, Basketball Angles Objective 36 Students will solve problems that arise in mathematics and in other contexts.

OUTCOME

SS5.2.a.

Choose and use referents for 1 mm to determine approximate linear measurements in situations relevant to self, family, or community and explain the choice.

Correlated Lessons:

Towns and Cities, Amusement Parks Objective 41 Students understands the basic measures of length.

OUTCOME

SS5.2.c.

Provide examples of situations relevant to one's life, family, or community in which linear measurements would be made and identify the standard unit (mm, cm, or m) that would be used for that measurement and justify the choice.

Correlated Lessons:

Towns and Cities, Amusement Parks Objective 41 Students understands the basic measures of length.

OUTCOME

SS5.2.e.

Pose and solve problems that involve hands-on linear measurements using either referents or standard units.

Correlated Lessons:

Towns and Cities, Amusement Parks Objective 41 Students understands the basic measures of length.

OUTCOME

SS5.3.e.

Determine the volume of a 3-D object using manipulatives, describe the strategy used, and explain whether the volume is exact or an estimate.

Correlated Lessons:

At the Aquarium; Hot Air Balloons Pages 156, 161 Objective 16 Students will learn how to measure the volume of various objects.

At the Aquarium, Hot Air Balloons Objective 46 Students will use geometric models to solve problems in other areas of mathematics, such as number and measurement.

At the Aquarium, Hot Air Balloons Objective 48 Students will develop strategies to determine the surface areas and volumes of various shapes.

The Winning Angle, Basketball Angles Objective 34 Students will use geometric models to solve problems in other areas of mathematics, such as number and measurement.

The Winning Angle, Basketball Angles Objective 35 Students will recognize geometric ideas and relationships and apply them to other disciplines and to problems that arise in the classroom or in everyday life.

The Winning Angle, Basketball Angles Objective 36 Students will solve problems that arise in mathematics and in other contexts.

OUTCOME

SS5.5.b.

Sketch a 2-D shape or 3-D object that is relevant to self, family, or others and identify any lines, edges, or faces that are parallel, intersecting, perpendicular, vertical, or horizontal.

Correlated Lessons:

At the Aquarium, Hot Air Balloons Objective 47 Students will build and draw geometric objects.

Statistics and Probability Strand

OUTCOME

SP5.1.b.

Formulate a question related to self, family, or community which can best be answered using first-hand data, describe how that data could be collected, and answer the question (e.g., "What game will we play at home tonight?" "I can survey everyone at home to find out what games everyone wants to play.").

Correlated Lessons:

Graphs in Action, It's Our Business Objective 54 Students will collect data using observations, surveys, and experiments.

OUTCOME

SP5.1.d.

Find examples of second-hand data in print and electronic media, such as newspapers, magazines, and the Internet, and compare different ways in which the data might be interpreted and used (e.g., statistics about health-related issues, sports data, or votes for favourite websites).

Correlated Lessons:

CSI, The Jungle Park Case Objective 49 Students will understand that data represents specific pieces of information about real-world objects or activities.