

Mathletics

Prince Edward Island Mathematics Curriculum

Skill Quests



Grades 3-6

July, 2025

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Grade 3	3
1 Number.....	3
2 Patterns and Relations (Patterns).....	6
3 Patterns and Relations (Variables and Equations)	7
4 Shape and Space (Measurement)	8
5 Shape and Space (3D Objects and 2D Shapes).....	9
6 Statistics and Probability (Data Analysis)	10
Grade 4	11
1 Number.....	11
2 Patterns and Relations (Patterns).....	14
3 Patterns and Relations (Variables and Equations)	15
4 Shape and Space (Measurement)	16
5 Statistics and Probability (Data Analysis)	17
Grade 5	18
1 Number.....	18
2 Patterns & Relations (Patterns).....	20
3 Patterns & Relations (Variables & Equations)	21
4 Shape & Space (Measurement)	22
5 Shape and Space (3D Objects and 2D Shapes).....	23
6 Statistics & Probability (Data Analysis)	24
Grade 6	25
1 Number.....	25
2 Patterns & Relations (Patterns).....	27
3 Patterns & Relations (Variables & Equations)	28
4 Shape & Space (Measurement)	29
5 Shape and Space (3D Objects and 2D Shapes).....	30
6 Statistics & Probability (Data Analysis)	31
7 Statistics & Probability (Chance & Uncertainty)	32

Grade 3

1 Number

Standard	Quests	Content
3.N1 Say the number sequence forward and backward from 0 to 1000 by: 5s, 10s, or 100s, using any starting point; 3s using starting points that are multiples of 3; 4s using starting points that are multiples of 4; 25s, using starting points that are multiples of 25.	Count to 1000	Counting by 5s to 1000, forward & backward
		Counting by 10s to 1000, forward & backward
		Counting by 100s to 1000, forward & backward
		Counting by 1s to 1000
		Skip counting by 3s
		Skip counting by 4s
		Skip counting by 25s
3.N2 Represent and describe numbers to 1000, concretely, pictorially and symbolically.	Represent & describe numbers to 1000	Representing & describing numbers to 1000
		Connecting multiples of 10 & 100 to number words
3.N3 Compare and order numbers to 1000.	Compare & order numbers to 1000	Identifying numbers before & after within 1000
		Comparing numbers to 1000
		Ordering numbers to 1000
3.N4 Illustrate, concretely & pictorially, the meaning of place value for numerals to 1000	Place value of numbers up to 1000	Identifying place value of numbers to 1000
		Using place value to partition 3-digit numbers
		Non-standard partitioning, 3-digit numbers
		Solving place value number problems
3.N5 Describe and apply mental mathematics strategies for adding two 2-digit numerals.	Add 2-digit numbers, mental strategies	Adding 2-digit numbers, jump strategy
		Adding 2-digit numbers, split strategy
		Adding 2-digit numbers, bridge to ten
		Adding 2-digit numbers, using place value
		Adding tens to a 2-digit number, models
3.N6 Describe and apply mental mathematics strategies for subtracting two 2-digit numerals.	Subtract 2-digit numbers, mental methods	Subtracting 2-digit numbers, jump strategy
		Subtracting 2-digit numbers, split strategy
		Subtracting 2-digit numbers, bridging to ten

		Subtracting 2-digit numbers, round & compensate
		Subtracting tens from a 2-digit number, models
3.N7 Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem-solving context.	Estimate: two 2-digit number problems	Estimating with two 2-digit number problems
3.N8 Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1, 2 and 3-digit numerals).	Addition & subtraction to 1000	Adding up to 1000 using jump strategy
		Adding up to 1000 using bridging to ten
		Adding up to 1000 using split strategy
		Adding up to 1000 using rounding & compensating
		Adding up to 1000 using formal algorithm
		Subtracting up to 1000 using jump strategy
		Subtracting up to 1000 using split strategy
		Subtracting up to 1000 using bridging to ten
		Subtracting up to 1000 - rounding & compensating
		Subtracting up to 1000 using formal algorithm
		Adding & subtracting to 1000 using jump strategy
		Adding & subtracting to 1000 using split strategy
		Representing add/subtract problems using bar model
		Solving addition & subtraction word problems
3.N9 Apply mental mathematics strategies and number properties, such as: using doubles; making 10; using the commutative property; using the property of zero; thinking addition for subtraction to determine answers for basic addition facts and related subtraction facts (to 18).	Mental strategies - add/sub facts to 18	Using the commutative property of addition
		Adding 3 single-digit numbers to 18
		Finding the difference between 2 numbers
		Using doubles & near doubles to add & subtract
		Mental strategies for addition & subtraction facts
		Adding & subtracting zero
3.N10 Demonstrate an understanding of multiplication to products of 36 with single digit factors.	Multiplication concepts to 6 x 6	Using repeated addition to multiply
		Exploring multiplication by 2
		Exploring multiplication by 3

		Exploring multiplication by 4
		Exploring multiplication by 5
		Recalling multiplication facts to 5 x 5
		Exploring multiplication by 6
3.N11 Demonstrate an understanding of division (related multiplication to products of 36 with single digit factors).	Division concepts (up to 6 x 6 facts)	Using repeated subtraction to divide
		Dividing by 2
		Dividing by 3
		Dividing by 4
		Dividing by 5
		Dividing by 6
	Relate multiplication & division	Modeling multiplication & division relationship
		Solving problems using arrays
3.N12 Demonstrate an understanding of fractions by: explaining that a fraction represents a part of a whole; describing situations in which fractions are used; comparing fractions of the same whole with like denominators.	Fraction concepts	Multiplication & division word problems
		Finding halves
		Finding fourths
		Working with halves & fourths
		Working with thirds
		Working with sixths
		Working with thirds & sixths
		Working with fifths
		Working with eighths
		Working with halves, fourths & eighths
		Working with halves, thirds, fourths
		Representing simple fractions
		Ordering & comparing fractions

2 Patterns and Relations (Patterns)

Standard	Quests	Content
3.PR1 Demonstrate an understanding of decreasing patterns by: describing, extending, comparing, creating patterns using manipulatives, diagrams, sounds and actions (numbers to 1000).	Decreasing patterns	Working with decreasing number patterns within 100
		Working with decreasing number pattern within 1000

3 Patterns and Relations (Variables and Equations)

Standard	Quests	Content
3.PR2 Solve one-step addition and subtraction equations involving symbols representing an unknown number.	One-step add/sub problems with unknowns	One-step number problems with unknowns up to 20
		One-step number problems with unknowns up to 100

4 Shape and Space (Measurement)

Standard	Quests	Content
3.SS1 Relate the passage of time to common activities using non-standard and standard units (minutes, hours, days, weeks, months, years).	Understand passage of time	Understanding passage of time concepts
		Introducing time in hours, minutes & seconds
3.SS2 Relate the number of seconds to a minute, the number of minutes to an hour and the number of days to a month in a problem-solving context.	Understand measures of time	Using calendars
		Solving problems related to units of time
3.SS3 Demonstrate an understanding of measuring length (cm, m) by: selecting and justifying referents for the units cm and m; modeling and describing the relationship between the units cm and m; estimating length using referents; measuring and recording length, width and height.	Understand & measure length (m, cm)	Measuring in standard units: cm & m
		Selecting units of measurement: m, cm
		Converting between m & cm
		Estimating & measuring in cm
		Measuring length of 3D objects
3.SS4 Demonstrate an understanding of measuring mass (g, kg).	Understand & measure mass (kg, g)	Measuring mass: kilograms
		Measuring mass: grams
		Selecting units of measurement: kg, g
		Understanding relationships between kg & g
3.SS5 Demonstrate an understanding of perimeter of regular and irregular shapes.	Understand & measure perimeter	Understanding & calculating perimeter

5 Shape and Space (3D Objects and 2D Shapes)

Standard	Quests	Content
3.SS6 Sort regular and irregular polygons, including: triangles, quadrilaterals, pentagons, hexagons, octagons, according to the number of sides.	Sort & identify 2-D shapes	Comparing 2-D shapes
		Identifying & naming 2-D shapes
		Sorting 2-D shapes
	Regular & irregular polygons	Understanding regular & irregular polygons

6 Statistics and Probability (Data Analysis)

Standard	Quests	Content
3.SP1 Collect first-hand data and organize it using: tally marks, line plots, charts, lists to answer questions.	Organize first-hand data	Understanding & using line plots
		Understanding & using data in lists & tables
		Understanding the statistical process
	Bar graphs	Understanding & using bar graphs

Grade 4

1 Number

Standard	Quests	Content
4.N1 Represent and describe whole numbers to 10 000, concretely, pictorially and symbolically.	Number concepts to 10 000	Reading & writing numbers to 10 000
		Understanding place value, 4-digit numbers
		Partitioning 4-digit numbers
4.N2 Compare and order numbers to 10 000.	Compare & order numbers to 10 000	Identifying numbers before & after to 10 000
		Identifying missing numbers to 10 000
		Comparing & ordering numbers to 10 000
4.N3 Demonstrate an understanding of addition of numbers with answers to 10 000 and their corresponding subtractions (limited to 3 and 4-digit numerals) by: using personal strategies for adding and subtracting, estimating sums and differences, and solving problems involving addition and subtraction.	Addition to 10 000	Adding up to 10 000 using number line
		Adding up to 10 000 using place value
		Adding up to 10 000 using a split strategy
		Adding up to 10 000 using rounding & compensating
		Adding up to 10 000 using algorithm
		Choosing mixed addition strategies
	Subtraction to 10 000	Subtracting up to 10 000 using number line
		Subtracting up to 10 000 using place value
		Subtracting up to 10 000 using a split strategy
		Subtracting up to 10 000 using round & compensate
		Subtracting up to 10 000 using algorithms
		Choosing mixed subtraction strategies
	Add & subtract word problems to 10 000	Solving addition & subtraction word problems
4.N4 Explain the properties of 0 and 1 for multiplication and the property of 1 for division.	Multiply by 0 & 1, divide by 1	Multiplying by 1 or 0
		Dividing by 1

4.N5 Describe and apply mental mathematics strategies, such as: skip counting from a known fact, using doubling or halving, using doubling or halving and adding or subtracting one more group, and using patterns in the 9s facts to determine basic multiplication facts to 9×9 and related division facts.	Multiplication facts to 9×9	Exploring multiplication by 2
		Exploring multiplication by 3
		Exploring multiplication by 4
		Exploring multiplication by 5
		Exploring multiplication by 6
		Exploring multiplication by 7
		Exploring multiplication by 8
		Exploring multiplication by 9
		Recalling multiplication facts to 7×7
	Division facts to $81 \div 9$	Dividing by 2 & 5
		Dividing by 3 & 6
		Dividing by 4 and 8
		Dividing by 9
	Multiplication & division facts	Recall multiplication & division facts to 7×7
		Understand relationship, multiplication & division
4.N6 Demonstrate an understanding of multiplication (2- or 3-digit by 1-digit) to solve problems by using personal strategies for multiplication (2- or 3-digit by 1-digit) to solve problems by using personal strategies for multiplication with and without concrete materials, using arrays to represent multiplication, connecting concrete representation to symbolic representations and estimating products.	Multiplication, 2- or 3-digit by 1-digit	Multiplying 2- or 3-digits by 1-digit, place value
		Multiplying 2- or 3-digits by 1-digit, doubling
		Multiplying 2- or 3-digits by 1-digit, area model
		Multiplying 2- or 3-digits by 1-digit, factoring
		Multiplying 2- or 3-digits by 1-digit, algorithm
		Multiply to 3-digits $\times$ 1-digit, expanded algorithm
		Multiply to 3-digits $\times$ 1-digit, round to estimate
		Multiplying by multiples of 10 & 100
4.N7 Demonstrate an understanding of division (1-digit divisor and up to 2-digit dividend) to solve problems by using personal strategies for dividing with and without concrete materials, estimating quotients and relating division to multiplication.	Division, 2-digit by 1-digit	Dividing 2-digits by 1-digit, models
		Dividing 2-digits by 1-digit, halving
		Dividing 2-digits by 1-digit, related facts
		Dividing 2-digits by 1-digit, inverse relationship
		Dividing 2-digit by 1-digit, extended algorithm
		Dividing 2-digit by 1-digit, algorithm
		Dividing 2-digit by 1-digit, round to estimate
		Dividing by 1 using bar models
4.N8 Demonstrate an understanding of fractions less than or equal to one by	Represent fractions less than/equal to 1	Introducing the terms numerator & denominator
		Understanding fractions

using concrete and pictorial representations to name and record fractions for the parts of a whole or a set, compare and order fractions, model and explain that for different wholes, two identical fractions may not represent the same quantity and to provide examples of where fractions are used.		Representing halves, fourths & eighths
		Representing thirds & sixths
		Representing fifths
		Representing tenths
		Representing eighths
	Compare & order fractions	Comparing & ordering unit fractions with models
		Comparing & ordering common fractions with models
		Comparing fractions with the same numerator
		Compare fractions with the same denominator
4.N9 Describe and represent decimals (tenths and hundredths) concretely, pictorially and symbolically.	Decimals to hundredths	Introducing decimal notation
		Introducing decimal tenths
		Introducing decimal hundredths
4.N10 Relate decimals to fractions (to hundredths).	Connect decimals & fractions	Connecting decimals & fractions, tenths
		Connecting decimals & fractions, hundredths
		Connecting decimals & fractions, up to hundredths
4.N11 Demonstrate an understanding of addition and subtraction of decimals (limited to hundredths) by using compatible numbers, estimating sums and differences and using mental math strategies to solve problems.	Add & subtract decimals to hundredths	Adding decimals to tenths
		Subtracting decimals to tenths
		Adding decimals to hundredths
		Subtracting decimals to hundredths
		Estimating decimal sums & differences
		Adding & subtracting decimal word problems
	Use decimals in the context of money	Using decimals in money
		Estimating & calculating change
		Solving word problems involving money

2 Patterns and Relations (Patterns)

Standard	Quests	Content
4.PR1 Identify and describe patterns found in tables and charts, including a multiplication chart.	Patterns in tables & charts	Exploring increasing number patterns
		Identifying number patterns up to 1000
		Investigating number sequences
4.PR2 Reproduce a pattern shown in a table or chart using concrete materials.	Different representations in patterns	Relating patterns to tables or charts
		Creating addition patterns from a given rule
		Creating multiplication patterns from a given rule
4.PR3 Represent and describe patterns and relationships using charts and tables to solve problems.	Use patterns to solve problems	Using patterns to solve problems
	Use Venn & Carroll diagrams	Identifying & describing additive number patterns
		Introducing Venn diagrams
		Introducing Carroll diagrams
		Relating Carroll & Venn diagrams
		Describing pattern rules

3 Patterns and Relations (Variables and Equations)

Standard	Quests	Content
4.PR4 Express a given problem as an equation in which a symbol is used to represent an unknown number.	Express a problem as an equation	Matching equations to word problems
		Using symbols to represent unknown numbers
4.PR5 Solve one-step equations involving a symbol to represent an unknown number.	One-step equations using all operations	Finding missing numbers: add & subtract equations
		One-step equations: addition and subtraction
		One-step equations: multiplication and division
		One-step equations: balancing number sentences

4 Shape and Space (Measurement)

Standard	Quests	Content
4.SS1 Read and record time using digital and analog clocks, including 24-hour clocks.	Read & record time	Telling time to the hour & half hour
		Telling time to the quarter hour
		Telling time to 5 minutes
		Telling time to the minute
		Using am & pm notation
		Using 24-hour time
4.SS2 Read and record calendar dates in a variety of formats.	Read & record calendar dates	Reading & writing calendar dates
4.SS3 Demonstrate an understanding of area of regular and irregular 2D shapes by recognizing that area is measured in square units, selecting and justifying referents for the units cm ² or m ² , estimating area by using referents for cm ² or m ² , determining and recording area (cm ² or m ²), constructing different rectangles for a given area (cm ² or m ²) in order to demonstrate that many different rectangles may have the same area.	Understand area	Measuring area using non-standard units
		Introducing formal units for area: cm ²
		Introducing formal units for area: m ²
	Measure the area of rectangles	Estimating & measuring areas of rectangles
		Comparing & ordering rectangular areas
		Finding the area of a rectangle, arrays
		Finding the area of a rectangle, area model
		Finding the area of rectangles, formula
	Approximate area, non-rectilinear shapes	Approximating areas, non-rectilinear shapes

5 Statistics and Probability (Data Analysis)

Standard	Quests	Content
4.SP1 Demonstrate an understanding of many-to-one correspondence.	Understand many-to-one correspondence	Comparing pictographs - different correspondence
4.SP2 Construct and interpret pictographs and bar graphs involving many-to-one correspondence to draw conclusions.	Graphs using many-to-one correspondence	Using pictographs with many-to-one correspondence
		Compare pictographs with different correspondence
		Using bar graphs with many-to-one correspondence

Grade 5

1 Number

Standard	Quests	Content
5.N1 Represent and describe whole numbers to 1 000 000.	Number concepts to 1 000 000	Reading & writing numbers up to 6 digits
		Comparing & ordering numbers up to 6 digits
		Identifying place value of 6-digit numbers
		Using place value to partition 6-digit numbers
5.N2 Use estimation strategies including front-end rounding, compensation, and compatible numbers in problem-solving contexts.	Strategies for estimation & computation	Rounding numbers up to 6 digits
		Round numbers to estimate - addition & subtraction
		Checking calculations when adding & subtracting
		Using compensation to add & subtract
		Rounding numbers to estimate - multiply & divide
		Checking calculations when multiplying & dividing
5.N3 Apply mental mathematics strategies and number properties, such as skip counting from a known fact, using doubling or halving, using patterns in the 9s facts, and using repeated doubling or halving to determine answers for basic multiplication facts to 81 and related division facts.	Multiplication facts to 9×9	Multiplication facts for 2
		Multiplication facts for 3
		Multiplication facts for 4
		Multiplication facts for 5
		Multiplication facts for 6
		Multiplication facts for 7
		Multiplication facts for 8
		Multiplication facts for 9
		Multiplying by 1 or 0
		Recalling multiplication facts to 9×9
		Relationship between multiplication & division
	Division facts to $81 \div 9$	Dividing by 2 & 5
		Dividing by 3 & 6
		Dividing by 4 & 8
		Dividing by 9
		Recall multiplication & division facts to 9×9
5.N4 Apply mental mathematics strategies for multiplication, such as annexing then adding zero, halving and doubling, and using the distributive property.	Mental strategies to multiply	Multiplying by multiples of 10, 100 & 1000
		Multiplying using doubling
		Multiplying using doubling & halving

		Multiplying using distributive property
5.N5 Demonstrate an understanding of multiplication (2-digit by 2-digit) to solve problems.	Multiply 2-digits by up to 2-digits	Multiplying 2-digits by 2-digits, area model
		Multiplying 2-digits by 2-digits, factorizing
		Multiplying 2-digits by 2-digits, use known facts
		Multiplying 2-digits by 2-digits, formal algorithm
		Solving multiplication word problems
5.N6 Demonstrate, with and without concrete materials, an understanding of division (3-digit by 1-digit) and interpret remainders to solve problems.	Divide up to 3-digits by 1-digit	Dividing up to 3-digit by 1-digit, no remainders
		Dividing by partitioning, no remainders
		Dividing 3-digits by 1-digit, factoring
		Finding the remainder, 2-digits by 1-digit
		Dividing by partitioning with remainders
		Dividing 3-digits by 1-digit, formal algorithm
5.N7 Demonstrate an understanding of fractions by using concrete and pictorial representations to create sets of equivalent fractions and compare fractions with like and unlike denominators.	Equivalent fractions	Finding equivalent fractions with models
		Finding equivalent fractions using multiplication
		Finding equivalent fractions using a number line
	Compare & order fractions	Comparing unit fractions, different denominators
		Comparing & ordering proper fractions
5.N8 Describe and represent decimals (tenths, hundredths, thousandths) concretely, pictorially and symbolically.	Decimals to thousandths	Understanding decimals to thousandths
		Partitioning decimal numbers to thousandths
5.N9 Relate decimals to fractions (to thousandths).	Relate decimals & fractions	Relating decimals & fractions up to thousandths
5.N10 Compare and order decimals (to thousandths) by using benchmarks, place value, and equivalent decimals.	Compare & order decimals to thousandths	Comparing & ordering decimals to thousandths
5.N11 Demonstrate an understanding of addition and subtraction of decimals (limited to thousandths).	Add & subtract decimals to thousandths	Adding decimals to thousandths
		Subtracting decimals to thousandths
		Adding & subtracting decimal word problems
		Estimating sums & differences to thousandths

2 Patterns & Relations (Patterns)

Standard	Quests	Content
5.PR1 Determine the pattern rule to make predictions about subsequent elements.	Represent, analyze & apply patterns	Additive & subtractive number patterns
		Generating add/subtract patterns from a given rule
		Working with repeating number & shape patterns
		Multiplication & division number patterns
		Modelling number patterns from a table of values
		Writing pattern rules as algebraic expressions
		Working with shape patterns & rules

3 Patterns & Relations (Variables & Equations)

Standard	Quests	Content
5.PR2 Solve problems involving single-variable, one-step equations with whole number coefficients and whole number solutions.	One-step equations with variables	Writing one-step equations using variables
		Solving one-step equations & word problems
		Solving one-step equations using bar model
	Equations with letter variables	Expressing word problems as equations

4 Shape & Space (Measurement)

Standard	Quests	Content
5.SS1 Design and construct different rectangles given either perimeter or area, or both (whole numbers) and draw conclusions.	Perimeter of rectangles	Introducing perimeter
	Area of rectangles, formula	Finding the area of rectangles, formula
	Relationship between area & perimeter	Solving perimeter & area problems
5.SS2 Demonstrate an understanding of measuring length (mm) by selecting and justifying referents for the unit mm and modelling and describing the relationship between mm and cm units, and between mm and m units.	Measure length in millimetres	Introducing millimetres
		Recording length in decimal notation
	Relationship between mm, cm & m	Comparing & ordering lengths in mm & cm
		Converting between mm & cm
5.SS3 Demonstrate an understanding of volume by selecting and justifying referents for cm ³ or m ³ units, estimating volume by using referents for cm ³ or m ³ , measuring and recording volume (cm ³ or m ³) and constructing rectangular prisms for a given volume.	Measure volume in cubic units	Selecting appropriate units of length: mm, cm & m
		Using unit cubes to measure volume
		Using cubic cm & m to measure volume
		Estimating volume using cubic cm & m

5 Shape and Space (3D Objects and 2D Shapes)

Standard	Quests	Content
5.SS4 Identify and sort quadrilaterals, including rectangles, squares, trapezoids, parallelograms, and rhombuses according to their attributes.	Identify & sort quadrilaterals	Sorting & naming quadrilaterals
		Classifying quadrilaterals

6 Statistics & Probability (Data Analysis)

Standard	Quests	Content
5.SP1 Differentiate between first-hand and second-hand data.	Teacher directed	
5.SP2 Construct and interpret double bar graphs to draw conclusions.	Double bar graphs	Interpreting data, double bar graphs
		Representing data, double bar graphs

Grade 6

1 Number

Standard	Quests	Content
6.N1 Demonstrate an understanding of place value for numbers: greater than one million; less than one thousandth.	Place value to billions	Reading & writing numbers up to billions
		Identifying place value up to billions
	Place value smaller than thousandths	Place value smaller than thousandths
	Situational questions	Situational questions, larger than one million
6.N2 Demonstrate an understanding of factors and multiples by: determining multiples and factors of numbers less than 100 identifying prime and composite numbers; solving problems involving multiples.	Prime & composite numbers	Introducing prime & composite numbers
	Prime factors	Using prime factors
	Find factors & multiples	Finding multiples up to 100, including LCM
		Finding factors up to 100, including GCF
		Situational questions, factors & multiples
6.N3 Relate improper fractions to mixed numbers.	Improper fractions & mixed numbers	Comparing & ordering mixed numbers
		Comparing & ordering improper fractions
		Comparing & ordering fractions & mixed numbers
		Converting improper fractions to mixed numbers
		Converting mixed numbers to improper fractions
6.N4 Demonstrate an understanding of percent, (limited to whole numbers) concretely, pictorially and symbolically.	Whole-number percentages	Introducing percentages
	Percentage equivalents	Representing percentage & fraction equivalents
		Representing percentage & decimal equivalents
		Fraction, decimal & percentage equivalents
	Calculate percentage discounts	Calculating percentage discounts
6.N5 Demonstrate an understanding of integers, concretely, pictorially and symbolically	Read & represent integers	Investigating integers
		Understanding integers in real-life contexts
		Comparing & ordering integers

6.N6 Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors).	Multiply decimals to thousandths	Multiplying decimals to thousandths
		Multiplying decimals & whole numbers, base 10
	Divide decimals to thousandths	Dividing decimals & whole numbers, base 10
		Dividing decimals to thousandths
6.N7 Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers).	Order of operations with whole numbers	Order of operations, addition & subtraction
		Order of operations, multiplication & division
		Order of operations, 4 operations
		Order of operations, grouping symbols
		Situational questions, order of operations

2 Patterns & Relations (Patterns)

Standard	Quests	Content
6.PR1 Demonstrate an understanding of the relationship within tables of values to solve problems.	Relationships within tables	Determining missing values in a table of values
		Making predictions about linear growing patterns
6.PR2 Represent and describe patterns and relationships using graphs and tables.	Patterns in tables of values & graphs	Creating a table of values, visual pattern
		Representing linear patterns, tables & graphs

3 Patterns & Relations (Variables & Equations)

Standard	Quests	Content
6.PR3 Demonstrate and explain the meaning of preservation of equality concretely, pictorially and symbolically.	Preservation of equality	Solving 1-step equations
		Solving 1-step equations using a balance
		Solving 1-step equations using algebra tiles
		Understanding the preservation of equality
		Creating equivalent forms of an equation

4 Shape & Space (Measurement)

Standard	Quests	Content
6.SS1 Demonstrate an understanding of angles by: identifying examples of angles in the environment; classifying angles according to their measure; estimating the measure of angles using 45° , 90° and 180° as reference angles; determining angle measures in degrees; drawing and labeling angles when the measure is specified.	Angle measurement & classification	Classifying angles
		Measuring angles with a circular protractor
6.SS2 Demonstrate that the sum of interior angles is: 180° in a triangle; 360° in a quadrilateral.	Sum of interior angles	Finding the missing angle of a triangle
		Finding the missing angle of a quadrilateral
6.SS3 Develop and apply a formula for determining the: perimeter of polygons; area of rectangles; volume of right rectangular prisms.	Relationships between area & perimeter	Solving perimeter & area problems
	Volume of rectangular prisms	Finding the volume of rectangular prisms
		Finding the missing dimension, rectangular prisms
	Area of rectangles	Finding the area of rectangles
	Perimeter of polygons	Determining the perimeter of polygons

5 Shape and Space (3D Objects and 2D Shapes)

Standard	Quests	Content
6.SS4 Construct and compare triangles, including: scalene; isosceles; equilateral; right; obtuse; and acute in different orientations.	Classification of triangles	Classifying triangles by their sides & angles
6.SS5 Describe and compare the sides and angles of regular and irregular polygons	Regular & irregular polygons	Understanding regular & irregular polygons

6 Statistics & Probability (Data Analysis)

Standard	Quests	Content
6.SP1 Create, label and interpret line graphs to draw conclusions.	Construct line graphs	Constructing a line graph
		Interpreting data in a line graph
		Choosing graphs, continuous vs discrete data
6.SP2 Graph collected data and analyze the graph to solve problems.	Data collection	Collecting data: questionnaires
	Select data displays	Selecting data displays

7 Statistics & Probability (Chance & Uncertainty)

Standard	Quests	Content
6.SP3 Demonstrate an understanding of probability by: identifying all possible outcomes of a probability experiment; differentiating between experimental and theoretical probability; determining the theoretical probability of outcomes in a probability experiment; determining the experimental probability of outcomes in a probability experiment; comparing experimental results with the theoretical probability for an experiment	Theoretical & experimental probability	Comparing observed & expected frequencies
		Probability of 0 and 1
		Predicting the probability of a specific outcome
		Listing the sample space for an event



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