

JUMP Math—Saskatchewan Curriculum Correlations: Grade 8

Lesson Number	JUMP Math Lesson Title	Saskatchewan Mathematics Outcome(s)
Grade 8 Part 1		
Unit 1 Number Sense		
NS8-1	Factors and Multiples	
NS8-2	LCMs and GCFs	
NS8-3	Prime Numbers	N8.1.c
NS8-4	Prime Factorizations	N8.1.c
NS8-5	Prime Factorizations and GCFs	
NS8-6	Prime Factorizations and LCMs	
NS8-7	Order of Operations	
NS8-8	Fractions	
NS8-9	Mixed Numbers	
NS8-10	Improper Fractions	
NS8-11	Mixed and Improper Fractions	
NS8-12	More Mixed Numbers	
NS8-13	More Mixed Numbers and Improper Fractions	
NS8-14	Comparing Fractions — Introduction	
NS8-15	Equivalent Fractions	
NS8-16	Comparing Fractions Using Equivalent Fractions	
NS8-17	Adding and Subtracting Fractions — Introduction	
NS8-18	Adding and Subtracting Fractions	
NS8-19	Adding and Subtracting Mixed Numbers	
NS8-20	Mental Math	
NS8-21	Investigating Fractions and Division — Advanced	
NS8-22	Word Problems with Adding and Subtracting Fractions	
NS8-23	Fractions of Whole Numbers	
NS8-24	Multiplying Fractions by Whole Numbers	N8.4.g, N8.4.l
NS8-25	Multiplying Fractions by Fractions	N8.4.b, N8.4.d, N8.4.l
NS8-26	Dividing Fractions by Whole Numbers	N8.4.i, N8.4.j, N8.4.l
NS8-27	Dividing Whole Numbers by Fractions	N8.4.h, N8.4.l
NS8-28	Operations with Fractions	N8.4.h, N8.4.l, N8.4.o
NS8-29	Dividing Fractions by Fractions	N8.4.h, N8.4.j, N8.4.l
NS8-30	Estimating Quotients of Fractions	N8.4.k
NS8-31	Word Problems	N8.4.n

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NS8-32	Word Problems — Advanced	N8.4.a, N8.4.n
NS8-33	Concepts in Fractions	N8.4.n
NS8-34	Decimal Fractions	
NS8-35	Place Value and Decimals	
NS8-36	Decimals, Money, and Measurements	
NS8-37	Decimals and Fractions Greater Than 1	
NS8-38	Comparing and Ordering Tenths and Hundredths	
NS8-39	Ordering Decimals and Fractions to Thousandths	
NS8-40	Regrouping Decimals	
NS8-41	Addition Strategies for Decimals	
NS8-42	Adding and Subtracting Decimals	
NS8-43	Rounding Review	
NS8-44	Rounding Decimals	
NS8-45	Estimating Decimal Sums and Differences	
NS8-46	Multiplying Decimals by 10	
NS8-47	Multiplying Decimals by 100 and 1000	
NS8-48	Dividing Decimals by 10 and 100	
NS8-49	Multiplying and Dividing by Powers of 10	
NS8-50	Multiplying Decimals by Whole Numbers	
NS8-51	Multiplying Decimals by 0.1, 0.01, and 0.001	
NS8-52	Multiplying Decimals by Decimals	
NS8-53	Multiplying Decimals by 2- and 3-Digit Decimals	
NS8-54	Long Division — 3- and 4-Digit by 1-Digit	
NS8-55	Dividing Decimals by Whole Numbers	
NS8-56	Dividing Decimals by Decimals	
NS8-57	Decimals Review	
Unit 2 Patterns and Algebra		
PA8-1	Extending Patterns	
PA8-2	Describing Patterns	
PA8-3	T-tables	
PA8-4	Patterns (Advanced)	
PA8-5	Variables	P8.2.b, P8.2.d
PA8-6	Substituting Fractions and Decimals for Variables	P8.2.d, P8.2.f

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PA8-7	Solving Equations — Guess and Check	P8.2.b, P8.2.d
PA8-8	Solving Equations — Preserving Equality	P8.2.d, P8.2.e
PA8-9	Solving Equations — Two Operations	P8.2.d, P8.2.e, P8.2.i
PA8-10	Solving Equations — Advanced	
PA8-11	Modelling Equations	P8.2.b, P8.2.d
PA8-12	Counter-examples	
PA8-13	Exploring Preservation of Equality	P8.2.g
PA8-14	Correcting Mistakes	P8.2.f
PA8-15	Word Problems	P8.2.i
Unit 3 Number Sense		
NS8-58	Perfect Squares	N8.1.a
NS8-59	Factors of Perfect Squares	N8.1.b, N8.1.c
NS8-60	Square Roots of Perfect Squares	N8.1.b, N8.1.f, N8.1.g
NS8-61	Prime Factorizations of Perfect Squares	N8.1.c
NS8-62	Square Roots of Non-Perfect Squares	N8.1.d, N8.1.e, N8.1.h, N8.1.g
NS8-63	Estimating Square Roots	N8.1.d, N8.1.h, N8.1.g
Unit 4 Probability and Data Management		
PDM8-1	Bar Graphs	SP8.1.e, SP8.1.f
PDM8-2	Double Bar Graphs	
PDM8-3	Line Graphs	SP8.1.a, SP8.1.c
PDM8-4	Investigating Line Graphs	
PDM8-5	Comparing Line Graphs	SP8.1.a, SP8.1.c, SP8.1.e, SP8.1.f
Unit 5 Geometry		
G8-1	Area of Triangles	
G8-2	Squares on a Grid	
G8-3	Length of Slant Line Segments	SS8.1.a
G8-4	The Pythagorean Theorem	SS8.1.a, SS8.1.d
G8-5	Proving the Pythagorean Theorem	SS8.1.a, SS8.1.b
G8-6	Problem-Solving — Using a Formula	SS8.1.d
G8-7	Using the Pythagorean Theorem	SS8.1.c, SS8.1.d
Unit 6 Measurement		
ME8-1	Part-to-Part and Part-to-Whole Ratios	N8.3.e
ME8-2	Equivalent Ratios	N8.3.e

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ME8-3	Solving Proportions	N8.3.e, N8.3.g
ME8-4	Word Problems	N8.3.a, N8.3.e, N8.3.g
ME8-5	Circles	SS8.1.d
ME8-6	Circumference	SS8.2.i
ME8-7	Area of Circles	SS8.3.c
ME8-8	Area, Circumference, and Perimeter	SS8.1.d
Unit 7 Number Sense		
NS8-64	Gains and Losses	
NS8-65	Integers	
NS8-66	Adding Integers	
NS8-67	Adding Integers on a Number Line	
NS8-68	Subtracting Integers	
NS8-69	Subtraction Using a Thermometer	
NS8-70	More Gains and Losses	
NS8-71	Word Problems	
NS8-72	Multiplying Integers	N8.5.b, N8.5.d, N8.5.e
NS8-73	Dividing Integers	N8.5.c, N8.5.d, N8.5.e, N8.5.f, N8.5.h
NS8-74	Concepts in Integers	N8.5.a, N8.5.g, N8.5.h
Unit 8 Geometry		
G8-8	Introduction to Coordinate Systems	
G8-9	Translations	
G8-10	Translations — Advanced	
G8-11	Reflections	
G8-12	Reflections — Advanced	
G8-13	Rotations	
G8-14	Transformations — Advanced	
Grade 8 Part 2		
Unit 1 Number Sense		
NS8-75	Relating Fractions and Division	
NS8-76	Repeating Decimals	
NS8-77	Using Decimals to Compare Fractions	
NS8-78	Is the Fraction a Terminating or Repeating Decimal?	
NS8-79	Adding and Subtracting Repeating Decimals	

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NS8-80	Writing Repeating Decimals as Fractions	
NS8-81	Writing Repeating Decimals as Fractions (Advanced)	
NS8-82	Percents	N8.2.b
NS8-83	Adding and Subtracting Percents	N8.2.b, N8.2.e
NS8-84	Tenths, Decimals, and Percents	N8.2.b
NS8-85	Fractions and Percents	
NS8-86	Visual Representations of Percents	N8.2.c
NS8-87	Comparing Fractions, Decimals, and Percents	N8.2.c
NS8-88	Finding Percents	N8.2.e, N8.3.g
NS8-89	Further Percents	N8.2.e, N8.3.g
NS8-90	Writing Equivalent Statements for Proportions	N8.2.e, N8.3.g
NS8-91	Using Proportions to Solve Percent Problems	N8.2.e, N8.3.g
NS8-92	Solving Percent Problems — Advanced	N8.2.e, N8.3.g
NS8-93	Percents Less Than 1%	N8.2.a, N8.2.b, N8.2.d, N8.3.g
NS8-94	Percents Greater Than 100%	N8.2.a, N8.2.b, N8.3.g
NS8-95	Percent Problems	N8.2.a, N8.2.e, N8.2.i, N8.2.j, N8.3.g
NS8-96	Relating Fractions, Ratios, and Percents	N8.3.d, N8.3.g
NS8-97	Finding the Whole from the Part	N8.3.g
NS8-98	Further Percent Problems	N8.2.e, N8.2.f, N8.2.g, N8.3.g
NS8-99	Word Problems	N8.2.e, N8.2.f, N8.2.g, N8.2.i, N8.2.j, N8.3.g
NS8-100	Three-Term Ratios	N8.3.g
NS8-101	Rates	N8.3.a, N8.3.c, N8.3.d, N8.3.g
NS8-102	Using Unit Rates	N8.3.a, N8.3.b, N8.3.d, N8.3.g
NS8-103	Ratio and Rates with Fractional Terms	N8.3.a, N8.3.g
Unit 2 Probability and Data Management		
PDM8-6	Relative Frequency Tables	
PDM8-7	Circle Graphs	SP8.1.d, SP8.1.e, SP8.1.f
PDM8-8	Drawing Circle Graphs	
PDM8-9	Reading Circle Graphs	N8.2.a, SP8.1.a, SP8.1.c, SP8.1.e, SP8.1.f
PDM8-10	Scatter Plots	
PDM8-11	Comparing Scatter Plots and Line Graphs	

Lesson Number	JUMP Math Lesson Title	Saskatchewan Mathematics Outcome(s)
PDM8-12	Histograms	
PDM8-13	Drawing Histograms	
PDM8-14	Comparing Graphs	SP8.1.a, SP8.1.c, SP8.1.e, SP8.1.f
Unit 3 Geometry		
G8-15	Points and Lines	
G8-16	Angles and Shapes	
G8-17	Measuring and Drawing Angles	
G8-18	Making a Sketch	
G8-19	Perpendicular Lines	
G8-20	Supplementary and Opposite Angles	
G8-21	Parallel Lines	
G8-22	Corresponding Angles and Parallel Lines	
G8-23	Alternate Angles and Parallel Lines	
G8-24	Angles and Triangles	
G8-25	Properties of Triangles	
G8-26	Solving Problems Using Angle Properties	
G8-27	Special Quadrilaterals	
G8-28	Properties of Quadrilaterals	
G8-29	Perpendiculars and Bisectors	
G8-30	Congruent Triangles	
G8-31	Congruence Rules	
G8-32	Triangles and Quadrilaterals	
G8-33	Triangles and Circles	
G8-34	Similarity	
G8-35	Similar Triangles	
G8-36	Properties of Similar Shapes	
Unit 4 Patterns and Algebra		
PA8-16	Substituting Integers for Variables	P8.2.d, P8.2.g
PA8-17	Solving Equations — Guess and Check	P8.2.g, P8.2.e
PA8-18	Solving Equations	P8.2.e
PA8-19	Concepts in Equations	P8.2.b, P8.2.c, P8.2.f, P8.2.g, P8.2.i
PA8-20	Formulas	P8.1.b
PA8-21	Formulas for Patterns	P8.2.a, P8.2.b

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PA8-22	Formulas for Patterns — Advanced	P8.2.b, P8.2.g, P8.2.i
PA8-23	Stepwise Rules	
PA8-24	Finding Rules and Formulas	P8.2.b, P8.2.d, P8.2.i
PA8-25	Graphs	P8.1.a, P8.1.c, P8.1.e, P8.2.i
PA8-26	Sequences and Ordered Pairs	P8.1.a
PA8-27	Graphing Sequences	P8.1.a
PA8-28	Graphing Formulas	P8.1.a, P8.1.f
PA8-29	Investigating Patterns	P8.1.a, P8.1.e, P8.1.f, P8.2.i
PA8-30	Problems and Puzzles	P8.2.i
PA8-31	Investigating Equations — Advanced	
PA8-32	Advanced Algebra	
Unit 5 Number Sense		
NS-104	Introduction to Powers	
NS-105	Investigating Powers	
NS-106	Powers and Expanded Form	
NS-107	Powers of Negative Numbers	
NS-108	Exponents, Integers, and Order of Operations	
NS-109	Concepts in Powers	
NS-110	Negative Fractions and Decimals	
Unit 6 Measurement		
ME8-9	Right Prisms	SS8.2.a, SS8.2.f,
ME8-10	Nets of Right Prisms	SS8.2.d, SS8.2.e, SS8.2.f
ME8-11	Volume of Rectangular Prisms	SS8.3.a, SS8.3.b, SS8.3.d, SS8.3.e
ME8-12	Volume of Polygonal Prisms	SS8.3.a, SS8.3.b, SS8.3.e
ME8-13	Volume of Cylinders	SS8.3.a, SS8.3.b, SS8.3.c, SS8.3.e
ME8-14	Capacity	SS8.3.e
ME8-15	Changing Units of Area and Volume	SS8.3.e
ME8-16	Surface Area of Prisms	SS8.2.e, SS8.2.h, SS8.2.i, SS8.2.j
ME8-17	Surface Area of Cylinders	SS8.2.f, SS8.2.h, SS8.2.i, SS8.2.j
ME8-18	Surface Area and Volume	SS8.3.e, SS8.2.i, SS8.2.j

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Unit 7 Geometry		
G8-37	Euler's Formula	
G8-38	Tessellations and Transformations	SS8.4.a, SS8.4.d, SS8.4.e
G8-39	Angles in Polygons and Tessellations	SS8.4.b, SS8.4.c
G8-40	Tessellating Polygons	SS8.4.b, SS8.4.c
G8-41	Creating Tessellating Shapes	SS8.4.c, SS8.4.d, SS8.4.f
G8-42	3-D Drawings, Top and Front Views	SS8.2.a, SS8.2.g
G8-43	Side Views	SS8.2.a
G8-44	Side Views of Structures Built from Prisms	SS8.2.b
G8-45	Building Structures from Side Views	SS8.2.g
G8-46	Rotating Structures	SS8.2.c
Unit 8 Probability and Data Management		
PDM8-15	Mean, Median, Mode, and Range	
PDM8-16	Understanding Mean, Median, Mode, and Range	
PDM8-17	Using the Mean, Median, Mode, and Range	
PDM8-18	Theoretical Probability — Review	
PDM8-19	Theoretical Probability	
PDM8-20	Tree Diagrams	
PDM8-21	Counting Combinations	
PDM8-22	Compound Events	SP8.2.b, SP8.2.d
PDM8-23	Concepts in Probability	SP8.2.a, SP8.2.d
PDM8-24	Experimental Probability	SP8.2.c, SP8.2.d
PDM8-25	Complementary Events	
PDM8-26	Samples and Sample Sizes	
PDM8-27	Bias in a Survey	
PDM8-28	Surveys and Experiments	SP8.1.b, SP8.1.c