

Grade 6 JUMP Math Correlation to the Manitoba Curriculum

NOTES:

Underlined JUMP Math lessons are review from a previous grade.

Italicized JUMP Math lessons contain prerequisite material required to meet the learning standard.

JUMP Math strands are represented by:

NS Number Sense

ME Measurement

G Geometry

PA Patterns and Algebra

PDM Probability and Data Management

Number				
General Learning Outcome				
Develop number sense.				
Specific Learning Outcomes		JUMP Math Lessons		
6.N.1	Demonstrate an understanding of place value for numbers • greater than one million • less than one-thousandth [C, CN, R, T]	Part	Unit	Lessons
		1	2	NS6-1 to 4
		2	9	NS6-38, 39 NS6-40
6.N.2	Solve problems involving large numbers, using technology. [ME, PS, T]	Part	Unit	Lessons
		1	2	<u>NS6-5</u> NS6-4, 6
		1	4	NS6-15, 17
6.N.3	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 factors or multiples [PS, R, V]	Part	Unit	Lessons
		1	7	NS6-20 NS6-18, 19, 21, 23
6.N.4	Relate improper fractions to mixed numbers. [CN, ME, R, V]	Part	Unit	Lessons
		1	8	NS6-26, 28, 32, 34 NS6-29 to 31, 33, 36, 37

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Number				
6.N.5	Demonstrate an understanding of ratio, concretely, pictorially, and symbolically. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	14	NS6-63 NS6-58 to 60
6.N.6	Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially, and symbolically. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	14	NS6-64 to 67, 69, 70
6.N.7	Demonstrate an understanding of integers, concretely, pictorially, and symbolically. [C, CN, R, V]	Part	Unit	Lessons
		1	2	NS6-7, 8
6.N.8	Demonstrate an understanding of multiplication and division of decimals (involving 1-digit whole-number multipliers, 1-digit natural number divisors, and multipliers and divisors that are multiples of 10), concretely, pictorially, and symbolically, by • using personal strategies • using the standard algorithms • using estimation • solving problems [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	4	NS6-9 to 11, <u>12</u> , 13, 14, <u>16</u>
		2	9	NS6-44 to 47
		2	10	NS6-48 to 54, 57
6.N.9	Explain and apply the order of operations, excluding exponents (limited to whole numbers). [CN, ME, PS, T]	Part	Unit	Lessons
		1	7	NS6-24

Patterns and Relations (Patterns)				
General Learning Outcome				
Use patterns to describe the world and solve problems.				
Specific Learning Outcomes		JUMP Math Lessons		
6.PR.1	Demonstrate an understanding of the relationships within tables of values to solve problems. [C, CN, PS, R]	Part	Unit	Lessons
		1	1	PA6-3 PA6-4, 5, 7, 8
		1	5	ME6-4
		2	12	PA6-16, 17, 19, 20
6.PR.2	Represent and describe patterns and relationships using graphs and tables. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		2	12	PA6-16, 17, 20
Patterns and Relations (Variables and Equations)				
General Learning Outcome				
Represent algebraic expressions in multiple ways.				
Specific Learning Outcomes		JUMP Math Lessons		
6.PR.3	Represent generalizations arising from number relationships using equations with letter variables. [C, CN, PS, R, V]	Part	Unit	Lessons
		1	1	PA6-6 to 8
		2	12	PA6-18 to 20
6.PR.4	Demonstrate and explain the meaning of preservation of equality, concretely, pictorially, and symbolically. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	12	PA6-9 PA6-10 to 15

Shape and Space (Measurement)				
General Learning Outcome				
Use direct or indirect measurement to solve problems.				
Specific Learning Outcomes		JUMP Math Lessons		
6.SS.1	Demonstrate an understanding of angles by <ul style="list-style-type: none">identifying examples of angles in the environmentclassifying angles according to their measureestimating the measure of angles using 45°, 90°, and 180° as reference anglesdetermining angle measures in degreesdrawing and labelling angles when the measure is specified [C, CN, ME, V]	Part	Unit	Lessons
		1	6	G6-1 to 5
6.SS.2	Demonstrate that the sum of interior angles is <ul style="list-style-type: none">180° in a triangle360° in a quadrilateral [C, R]	Part	Unit	Lessons
		1	6	G6-9
6.SS.3	Develop and apply a formula for determining the <ul style="list-style-type: none">perimeter of polygonsarea of rectanglesvolume of right rectangular prisms [C, CN, PS, R, V]	Part	Unit	Lessons
		1	5	ME6-1, 2 ME6-4, 5
		2	13	ME6-8 to 10
		2	16	ME6-17 to 19, 21

Shape and Space (3-D Objects and 2-D Shapes)				
General Learning Outcome				
Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.				
Specific Learning Outcomes		JUMP Math Lessons		
6.SS.4	Construct and compare triangles, including <ul style="list-style-type: none">scaleneisoscelesequilateralrightobtuseacute in different orientations. [C, PS, R, V]	Part	Unit	Lessons
		16	6	G6-7 G6-8
6.SS.5	Describe and compare the sides and angles of regular and irregular polygons. [C, PS, R, V]	Part	Unit	Lessons
		1	6	G6-6

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Shape and Space (Transformations)				
General Learning Outcome				
Describe and analyze position and motion of objects and shapes.				
Specific Learning Outcomes		JUMP Math Lessons		
6.SS.6	Perform a combination of transformations (translations, rotations, or reflections) on a single 2-D shape, and draw and describe the image. [C, CN, PS, T, V]	Part	Unit	Lessons
		2	11	G6-13 to 17
6.SS.7	Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations. [C, CN, T, V]	Part	Unit	Lessons
		2	11	G6-17
6.SS.8	Identify and plot points in the first quadrant of a Cartesian plane using whole-number ordered pairs. [C, CN, V]	Part	Unit	Lessons
		2	11	G6-18
6.SS.9	Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole-number vertices). [C, CN, PS, T, V]	Part	Unit	Lessons
		2	11	G6-19, 20

Statistics and Probability (Data Analysis)				
General Learning Outcome				
Collect, display, and analyze data to solve problems.				
Specific Learning Outcomes		JUMP Math Lessons		
6.SP.1	Create, label, and interpret line graphs to draw conclusions. [C, CN, PS, R, V]	Part	Unit	Lessons
		1	3	<i>PDM6-1</i> PDM6-3 to 6
6.SP.2	Select, justify, and use appropriate methods of collecting data, including <ul style="list-style-type: none">• questionnaires• experiments• databases• electronic media [C, PS, T]	Part	Unit	Lessons
		2	15	PDM6-14, 16
6.SP.3	Graph collected data and analyze the graph to solve problems. [C, CN, PS]	Part	Unit	Lessons
		2	15	PDM6-16, 17
Statistics and Probability (Chance and Uncertainty)				
General Learning Outcome				
Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.				
Specific Learning Outcomes		JUMP Math Lessons		
6.SP.4	Demonstrate an understanding of probability by <ul style="list-style-type: none">• 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 [C, ME, PS, T]	Part	Unit	Lessons
		1	8	<i>NS6-35</i>
		2	15	PDM6-7 to 11

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