

Grade 5 JUMP Math Correlation to the Manitoba Curriculum

NOTES:

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		
5.N.1	Represent and describe whole numbers to 1 000 000. [C, CN, T, V]	Part	Unit	Lessons
		1	2	NS5-1 to 7
		1	3	NS5-15
5.N.2	Apply estimation strategies, including <ul style="list-style-type: none"> • front-end rounding • compensation • compatible numbers in problem-solving contexts. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	2	NS5-8, 9 NS5-10 to 12
		1	3	NS5-20
5.N.3	Apply mental math strategies to determine multiplication and related division facts to 81 (9×9). [C, CN, ME, R, V]	Part	Unit	Lessons
		1	1	PA5-4, 6
		1	3	NS5-14, 16, 17
		1	4	NS5-24, 28
5.N.4	Apply mental mathematics strategies for multiplication, such as <ul style="list-style-type: none"> • annexing then adding zeros • halving and doubling • using the distributive property [C, ME, R]	Part	Unit	Lessons
		1	3	NS5-14 to 17

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Number				
5.N.5	Demonstrate an understanding of multiplication (1- and 2-digit multiples and up to 4-digit multiplicands), concretely, pictorially, and symbolically, by <ul style="list-style-type: none">• using personal strategies• using the standard algorithm• estimating products to solve problems. [C, CN, ME, PS, V]	Part	Unit	Lessons
		1	3	NS5-15, 18 to 22
5.N.6	Demonstrate an understanding of division (1- and 2-digit divisors and up to 4-digit dividends), concretely, pictorially, and symbolically, and interpret remainders by <ul style="list-style-type: none">• using personal strategies• using the standard algorithm• estimating quotients to solve problems. [C, CN, ME, PS]	Part	Unit	Lessons
		1	4	NS5-25 to 33
5.N.7	Demonstrate an understanding of fractions by using concrete and pictorial representations to <ul style="list-style-type: none">• create sets of equivalent fractions• compare fractions with like and unlike denominators [C, CN, PS, R, V]	Part	Unit	Lessons
		2	9	NS5-34 to 40, 44
5.N.8	Describe and represent decimals (tenths, hundredths, thousandths) concretely, pictorially, and symbolically. [C, CN, R, V]	Part	Unit	Lessons
		2	10	NS5-47, 48, 51
		2	11	NS5-56, 62
5.N.9	Relate decimals to fractions (tenths, hundredths, thousandths). [CN, R, V]	Part	Unit	Lessons
		2	10	NS5-48, 50 to 53
5.N.10	Compare and order decimals (tenths, hundredths, thousandths) by using <ul style="list-style-type: none">• benchmarks• place value• equivalent decimals [CN, R, V]	Part	Unit	Lessons
		2	10	NS5-50, 53
5.N.11	Demonstrate an understanding of addition and subtraction of decimals (to thousandths), concretely, pictorially, and symbolically, by <ul style="list-style-type: none">• using personal strategies• using the standard algorithms• using estimation• solving problems [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	2	NS5-5 to 7
		2	10	NS5-54, 55
		2	11	NS5-57 to 59, 62

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Patterns and Relations (Patterns)			
General Learning Outcome			
Use patterns to describe the world and solve problems.			
Specific Learning Outcomes		JUMP Math Lessons	
5.PR.1	Determine the pattern rule to make predictions about subsequent elements. [C, CN, PS, R, V]	Part	Unit Lessons
		1	1 PA5-1 to 3, 5, 7
		2	8 PA5-10, 11
Patterns and Relations (Variables and Equations)			
General Learning Outcome			
Represent algebraic expressions in multiple ways.			
Specific Learning Outcomes		JUMP Math Lessons	
5.PR.2	Solve problems involving single-variable (expressed as symbols or letters), one-step equations with whole-number coefficients, and whole-number solutions. [C, CN, PS, R]	Part	Unit Lessons
		2	8 PA5-8 PA5-9, 12 to 16

Shape and Space (Measurement)				
General Learning Outcome				
Use direct or indirect measurement to solve problems.				
Specific Learning Outcomes		JUMP Math Lessons		
5.SS.1	Design and construct different rectangles given either perimeter or area, or both (whole numbers), and draw conclusions. [C, CN, PS, R, V]	Part	Unit	Lessons
		1	5	ME5-3
		2	14	ME5-12 ME5-13 to 16
5.SS.2	Demonstrate an understanding of measuring length (mm) by <ul style="list-style-type: none">• selecting and justifying referents for the unit mm• modelling and describing the relationship between mm and cm units, and between mm and m units [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	5	ME5-1, 2, 4
5.SS.3	Demonstrate an understanding of volume by <ul style="list-style-type: none">• selecting and justifying referents for cm³ or m³ units• estimating volume by using referents for cm³ or m³• measuring and recording volume (cm³ or m³)• constructing rectangular prisms for a given volume [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		2	14	ME5-17, 18
5.SS.4	Demonstrate an understanding of capacity by <ul style="list-style-type: none">• describing the relationship between mL and L• selecting and justifying referents for mL or L units• estimating capacity by using referents for mL or L• measuring and recording capacity (mL or L) [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		2	14	ME5-20 to 22
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		
5.SS.5	Describe and provide examples of edges and faces of 3-D objects, and sides of 2-D shapes, that are <ul style="list-style-type: none">• parallel• intersecting• perpendicular• vertical• horizontal [C, CN, R, T, V]	Part	Unit	Lessons
		1	6	G5-1 G5-5, 8
		2	13	G5-21 to 24

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Shape and Space (3-D Objects and 2-D Shapes)				
5.SS.6	Identify and sort quadrilaterals, including <ul style="list-style-type: none">• rectangles• squares• trapezoids• parallelograms• rhombuses according to their attributes. [C, R, V]	Part	Unit	Lessons
		1	6	G5-1, 2, 5 G5-6, 9 to 11
Shape and Space (Transformations)				
General Learning Outcome				
Describe and analyze position and motion of objects and shapes.				
Specific Learning Outcomes		JUMP Math Lessons		
5.SS.7	Perform a single transformation (translation, rotation, or reflection) of a 2-D shape, and draw and describe the image. [C, CN, T, V]	Part	Unit	Lessons
		2	12	G5-15, 17 to 20
5.SS.8	Identify a single transformation (translation, rotation, or reflection) of 2-D shapes. [C, T, V]	Part	Unit	Lessons
		2	12	G5-15, 17 to 20

Statistics and Probability (Data Analysis)				
General Learning Outcome				
Collect, display, and analyze data to solve problems.				
Specific Learning Outcomes		JUMP Math Lessons		
5.SP.1	Differentiate between first-hand and second-hand data. [C, R, T, V]	Part	Unit	Lessons
		1	7	PDM5-7
5.SP.2	Construct and interpret double bar graphs to draw conclusions. [C, PS, R, T, V]	Part	Unit	Lessons
		1	7	PDM5-1, 2
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		
5.SP.3	Describe the likelihood of a single outcome occurring, using words such as <ul style="list-style-type: none">impossiblepossiblecertain [C, CN, PS, R]	Part	Unit	Lessons
		2	15	PDM5-9, 11
5.SP.4	Compare the likelihood of two possible outcomes occurring, using words such as <ul style="list-style-type: none">less likelyequally likelymore likely [C, CN, PS, R]	Part	Unit	Lessons
		2	15	PDM5-9 to 11