

Ontario Grade 5 Curriculum	Math Makes Sense 5 Student Text	Comments
B. Number		
B1. Number Sense		
Whole Numbers		
B1.1 read, represent, compose, and	Unit 2, Lesson 1, pages 28-30	
decompose whole numbers up to and		
including 100 000, using appropriate tools		
and strategies, and describe various ways		
they are used in everyday life		
B1.2 compare and order whole numbers up	Unit 2, Lesson 1, pages 28-30	
to and including 100 000, in various contexts		
Fractions, Decimals, and Percents		
B1.3 represent equivalent fractions from	Unit 8, Lesson 1, pages 258-261;	
halves to twelfths, including improper	Lesson 2, pages 262-264	
fractions and mixed numbers, using		
appropriate tools, in various contexts		
B1.4 compare and order fractions from	Unit 8, Lesson 3, pages 265-268	Comparing and ordering improper fractions
halves to twelfths, including improper		and mixed numbers are not addressed.
fractions and mixed numbers, in various		See Math Makes Sense 6 Student Text, Unit
contexts		8, Lesson 3 for comparing and ordering mixed
		numbers and fractions.
B1.5 read, represent, compare, and order	Unit 4, Lesson 1, pages 114-117;	
decimal numbers up to hundredths, in	Lesson 2, pages 118, 119;	
various contexts	Lesson 3, pages 120-123	
	Unit 8, Lesson 4, pages 270-273;	
	Lesson 5, pages 2/4-2/6	
B1.6 round decimal numbers to the nearest		Rounding decimals to the nearest tenth is not
tenth, in various contexts		addressed.
		See Math Makes Sense & Student Text, Unit
		4, Lesson 4 for rounding decimals to the
tenth, in various contexts		addressed. See <i>Math Makes Sense 6</i> Student Text, Unit 4, Lesson 4 for rounding decimals to the nearest tenth.



B1.7 describe relationships and show	Unit 8, Lesson 4, pages 270-274	Percents are not addressed.
equivalences among fractions, decimal		See Math Makes Sense 6 Student Text, Unit
numbers up to hundredths, and whole		8, Lessons 6 and 7 for relating fractions,
number percents, using appropriate tools		decimals, and percents.
and drawing, in various contexts		
B2. Operations		
Properties and Relationships		
B2.1 use the properties of operations, and	Unit 2, Lesson 13, pages 68-70	
the relationships between operations, to	See B2.4 and B2.6	
solve problems involving whole numbers and		
decimal numbers, including those requiring		
more than one operation, and check		
calculations		
Math Facts		
B2.2 recall and demonstrate multiplication	Unit 2, Lesson 7, pages 47-49	
facts from 0×0 to 12×12 , and related		
division facts		
Mental Math		
B2.3 use mental math strategies to multiply	Unit 4, Lesson 5, pages 127-129	Multiplying whole numbers by 0.1 and 0.01 is
whole numbers by 0.1 and 0.01, and estimate		not addressed.
sums and differences of decimal numbers up		See Math Makes Sense 6 Student Text, Unit
to hundredths, and explain the strategies		4, Lesson 9 for multiplying whole numbers by
used		0.1 and 0.01.
Addition and Subtraction		
B2.4 represent and solve problems involving	Unit 2, Lesson 2, pages 31-33;	
the addition and subtraction of whole	Lesson 3, pages 34-36; Lesson 4, pages 37-40;	
numbers that add up to no more than	Lesson 5, pages 41-43; Lesson 6, pages 44-46	
100 000, and of decimal numbers up to		
hundredths, using appropriate tools,	Unit 4, Lesson 5, pages 127-129;	
strategies, and algorithms	Lesson 6, pages 130-132;	
	Lesson 7, pages 135-138	
B2.5 add and subtract fractions with like		Adding and subtracting fractions with like
denominators, in various contexts		
		denominators is not addressed.



Multiplication and Division		
B2.6 represent and solve problems involving	Unit 2, Lesson 8, pages 52-54;	
the multiplication of two-digit whole	Lesson 9, pages 55-57;	
numbers by two-digit whole numbers using	Lesson 10, pages 58-60	
the area model and using algorithms, and		
make connections between the two methods		
B2.7 represent and solve problems involving		Dividing 3-digit numbers by 2-digit numbers
the division of three-digit whole numbers by		is not addressed.
two-digit whole numbers, using the area		See Math Makes Sense 6 Student Text, Unit
model and using algorithms, and make		2, Lessons 11 and 12 for strategies for
connections between the two methods, while		dividing by 2-digit numbers.
expressing any remainder appropriately		
B2.8 multiply and divide one-digit whole		Multiplying and dividing 1-digit whole
numbers by unit fractions, using appropriate		numbers by unit fractions is not addressed.
tools and drawings		See Math Makes Sense 7 Student Text, Unit
		4, Lesson 4.6 for multiplying a 1-digit whole
		number by a proper fraction.
B2.9 represent and create equivalent ratios		Ratios and rates are not addressed.
and rates, using a variety of tools and		See Math Makes Sense 6 Student Text, Unit
models, in various contexts		8, Lessons 9, 10, and 11 for equivalent ratios
		and rates.
C. Algebra		
C1. Patterns and Relationships		
Patterns		
C1.1 identify and describe repeating,	Unit 1, Lesson 1, pages 6-8;	Repeating patterns are not addressed.
growing, and shrinking patterns, including	Lesson 4, pages 16-19	
patterns found in real-life contexts		
C1.2 create and translate growing and	Unit 1, Lesson 2, pages 9-11;	
shrinking patterns using various	Lesson 3, pages 12-15; Lesson 4, pages 16-19	
representations, including tables of values		
and graphs	Unit 10, Lesson 3, pages 358-361;	
	Lesson 4, pages 362-364;	
	Lesson 5, pages 366, 367	



C1.3 determine pattern rules and use them	Unit 1, Lesson 1, pages 6-8;	Identifying missing elements in repeating
to extend patterns, make and justify	Lesson 4, pages 16-19; Lesson 5, pages 20, 21	patterns is not addressed.
predictions, and identify missing elements in		
repeating, growing, and shrinking patterns	Unit 10, Lesson 3, pages 358-361	
C1.4 create and describe patterns to illustrate	Unit 1, Lesson 1, pages 6-8;	
relationships among whole numbers and	Lesson 2, pages 9-11; Lesson 3, pages 12-15;	
decimal tenths and hundredths	Lesson 4, pages 16-19	
	Unit 2, Lesson 8, pages 52-54	
	Unit 10, Lesson 2, pages 354-357	
C2. Equations and Inequalities		
Variables and Expressions		
C2.1 translate among words, algebraic		Variables and expressions are not addressed.
expressions, and visual representations that		
describe equivalent relationships		
C2.2 evaluate algebraic expressions that		Evaluating algebraic expressions is not
involve whole numbers		addressed.
Equalities and Inequalities		
C2.3 solve equations that involve whole		Solving equations is not addressed.
numbers up to 100 in various contexts, and		See Math Makes Sense 6 Student Text, Unit
verify solutions		1, Lesson 4 for solving equations.
C2.4 solve inequalities that involve one		Solving inequalities is not addressed.
operation and whole numbers up to 50, and		
verify and graph the solutions		
C3. Coding		
Coding Skills		
C3.1 solve problems and create		Coding is not addressed.
computational representations of		
mathematical situations by writing and		
executing code, including code that involves		
conditional statements and other control		
structures		



C3.2 read and alter existing code, including		Coding is not addressed.
code that involves conditional statements		
and other control structures, and describe		
how changes to the code affect the outcomes		
D. Data		
D1. Data Literacy		
Data Collection and Organization		
D1.1 explain the importance of various		The importance of sampling techniques is not
sampling techniques for collecting a sample		addressed.
of data that is representative of the		
population		
D1.2 collect data, using appropriate sampling	Unit 5, Lesson 5, pages 178-180	
techniques as needed, to answer questions of		
interest about a population, and organize the		
data in relative-frequency tables		
Data Visualization		
D1.3 select from among a variety of graphs,	Unit 5, Lesson 3, pages 166-168;	Selecting the best graph is not addressed.
including stacked-bar graphs, the type of	Lesson 4, pages 172-175	See Math Makes Sense 6 Student Text, Unit
graph best suited to represent various sets of		5, Lesson 4 for selecting the best graph.
data; display the data in the graphs with		Stacked-bar graphs are not addressed.
proper sources, titles, and labels, and		
appropriate scales; and justify their choice of		
graph		
D1.4 create an infographic about a data set,		Creating infographics is not addressed.
representing the data in appropriate ways,		
including in relative-frequency tables, and		
stacked-bar graphs, and incorporating any		
other relevant information that helps to tell a		
story about the data		



Data Analysis		
D1.5 determine the mean and the median	Unit 5, Lesson 2, pages 160-162	The median is not addressed.
and identify the mode(s), if any, for various		See Math Makes Sense 6 Student Text, Unit
data sets involving whole numbers and		5, Lesson 2 for determining the median.
decimal numbers, and explain what each of		
these measures indicates about the data		
D1.6 analyse different sets of data presented	Unit 5, Lesson 1, pages 156-159;	Stacked-bar graphs are not addressed.
in various ways, including in stacked-bar	Lesson 3, pages 166-168;	
graphs and in misleading graphs, by asking	Lesson 4, pages 172-175;	
and answering questions about the data,	Lesson 6, pages 182-185	
challenging preconceived notions, and		
drawing conclusions, then make convincing		
arguments and informed decisions		
D2. Probability		
Probability		
D2.1 use fractions to express the probability	Unit 11, Lesson 3, pages 386-388;	A probability line is not addressed.
of events happening, represent this	Lesson 4, pages 389-391	
probability on a probability line, and use it to		
make predictions and informed decisions		
D2.2 determine and compare the theoretical		Theoretical and experimental probabilities
and experimental probabilities of an event		are not addressed.
happening		See Math Makes Sense 6 Student Text, Unit
		11, Lessons 1 and 5 for theoretical and
		experimental probabilities.
E. Spatial Sense		
E1. Geometric and Spatial Reasoning		
Geometric Reasoning		
E1.1 identify geometric properties of	Unit 3, Lesson 1, pages 80-83;	
triangles, and construct different types of	Lesson 4, pages 90-93	
triangles when given side or angle		
measurements		



E1.2 identify and construct congruent	Unit 3. Lesson 5. pages 94-97	Constructing rectangles and parallelograms is
triangles, rectangles, and parallelograms		not addressed.
		See Math Makes Sense 6 Student Text. Unit
		3. Lesson 4. for constructing rectangles and
		parallelograms
F1.3 draw top, front, and side views of		Drawing views of objects is not addressed.
objects, and match drawings with objects		See Math Makes Sense 6 Student Text. Unit
		3. Lesson 6 for drawing top, front, and side
		views
Location and Movement		
E1.4 plot and read coordinates in the first		Graphing on a Cartesian plane is not
guadrant of a Cartesian plane using various		addressed.
scales, and describe the translations that		See Math Makes Sense 6 Student Text. Unit
move a point from one coordinate to another		5. Lesson 5 for graphing on a coordinate grid.
		See Math Makes Sense 6 Student Text. Unit
		7. Lesson 1 for translating figures on a
		coordinate grid.
E1.5 describe and perform translations,	Unit 7, Lesson 2, pages 231-234	Rotations in degrees are not addressed.
reflections, and rotations up to 180° on a		
grid, and predict the results of these		
transformations		
E2. Measurement		
The Metric System		
E2.1 use appropriate metric units to estimate	Unit 6, Lesson 6, pages 208, 209;	
and measure length, area, mass, and capacity	Lesson 9, pages 216-218	
	Unit 9, Lesson 1, pages 308-310;	
	Lesson 2, pages 311-313;	
	Lesson 5, pages 319-322;	
	Lesson 8, pages 331-334;	
	Lesson 10, pages 339-341	



E2.2 solve problems that involve converting	Unit 6. Lesson 6. pages 208, 209:	
larger metric units into smaller ones, and	Lesson 9, pages 216-218;	
describe the base ten relationship among	Lesson 10, pages 219-221	
metric units		
	Unit 9, Lesson 2, pages 311-313	
Angles		
E2.3 compare angles and determine their		Measuring and comparing angles using non-
relative size by matching them and by		standard units is not addressed.
measuring them using appropriate non-		See Math Makes Sense 4 Student Text, Unit
standard units		3, Lessons 2 and 3, for measuring and
		comparing angles using non-standard units.
E2.4 explain how protractors work, use them	Unit 3, Lesson 2, pages 84-87	
to measure and construct angles up to 180°,		
and use benchmark angles to estimate the		
size of other angles		
Area		
E2.5 use the area relationships among	Unit 9, Lesson 8, pages 331-334	The formulas for the areas of parallelograms
rectangles, parallelograms, and triangles to		and triangles are not addressed.
develop the formulas for the area of a		See Math Makes Sense 6 Student Text, Unit
parallelogram and the area of a triangle, and		9, Lessons 4, 5, and 6 for the areas of
solve related problems		parallelograms and triangles.
E2.6 show that two-dimensional shapes with		The same area with different perimeters is
the same area can have different perimeters,		not addressed.
and solve related problems		See Math Makes Sense 4 Student Text, Unit
		9, Lesson 13 for shapes that have the same
		area but different perimeters.
F. Financial Literacy		
F1. Money and Finances		
Money Concepts		
F1.1 describe several ways that money can be		Financial literacy is not addressed.
transferred among individuals, organizations,		
and businesses		



F1.2 estimate and calculate the cost of	Financial literacy is not addressed.
transactions involving multiple items priced	
in dollar and cents, including sales tax, using	
various strategies	
Financial Management	
F1.3 design sample basic budgets to manage	Financial literacy is not addressed.
finances for various earning and spending	
scenarios	
F1.4 explain the concepts of credit and debt,	Financial literacy is not addressed.
and describe how financial decisions may be	
impacted by each	
Consumer and Civic Awareness	
F1.5 calculate unit rates for various goods	Financial literacy is not addressed.
and services, and identify which rates offer	
the best value	
F1.6 describe the types of taxes that are	Financial literacy is not addressed.
collected by the different levels of	
government in Canada, and explain how tax	
revenue is used to provide services in the	
community	