



Correlation of Pearson Mathematics Makes Sense Grade 7

to

The Curriculum

Number

General Outcomes

• Develop number sense

Specific Outcomes	Pearson Mathematics Makes Sense 7
1. Determine and explain why a number is	Unit 1, Lesson 1.1, pp. 6–9;
divisible by 2, 3, 4, 5, 6,8 or 10, and why a	Unit 1, Lesson 1.2, pp. 10–13
number cannot be divided by 0.	
2. Demonstrate an understanding of the	Unit 3, Lesson 3.3, pp. 96–99;
addition, subtraction, multiplication and	Unit 3, Lesson 3.4, pp. 100–103;
division of decimals (for more than 1-digit	Unit 3, Lesson 3.5, pp. 104–107;
divisors or 2-digit multipliers, the use of	Unit 3, Lesson 3.6, pp. 108, 109;
technology is expected) to solve problems.	Unit 3, Unit Problem, pp. 124, 125
3. Solve problems involving percents from	Unit 3, Lesson 3.7, pp. 111–113;
1% to 100%.	Unit 3, Lesson 3.8, pp. 114–116;
	Unit 3, Unit Problem, pp. 124, 125
4. Demonstrate an understanding of the	Unit 3, Lesson 3.1, pp. 86–90
relationship between positive repeating	
decimals and positive fractions, and	
positive terminating decimals and positive	
fractions.	
5. Demonstrate an understanding of adding	Unit 5, Lesson 5.1, pp. 178–180;
and subtracting positive fractions and	Unit 5, Lesson 5.2, pp. 181–185;
mixed numbers, with like and unlike	Unit 5, Lesson 5.3, pp. 186–189;
denominators, concretely, pictorially and	Unit 5, Lesson 5.4, pp. 191–194;
symbolically (limited to positive sums and	Unit 5, Lesson 5.5, pp. 195–198;
differences).	Unit 5, Lesson 5.6, pp. 199–203;
	Unit 5, Lesson 5.7, pp. 204–208;
	Unit 5. Unit Problem, pp. 216, 217





Specific Outcomes	Pearson Mathematics Makes Sense 7
6. Demonstrate an understanding of	Unit 2, Lesson 2.1, pp. 52–55;
addition and subtraction of integers,	Unit 2, Lesson 2.2, pp. 56–59;
concretely, pictorially and symbolically.	Unit 2, Lesson 2.3, pp. 60–64;
	Unit 2, Lesson 2.4, pp. 66–70;
	Unit 2, Lesson 2.5, pp. 71–75;
	Unit 2, Unit Problem, pp. 82, 83
7. Compare and order positive fractions,	Unit 3, Lesson 3.2, pp. 91–95
positive decimals (to thousandths) and	
whole numbers by using:	
• benchmarks	
• place value	
• equivalent fractions and/or decimals.	



Patterns and Relations (Patterns)

General Outcome:

• Use patterns to describe the world and solve problems.

It is expected that students will:

Specific Outcomes	Pearson Mathematics Makes Sense 7
1. Demonstrate an understanding of oral	Unit 1, Lesson 1.3, pp. 16–19;
and written patterns and their equivalent	Unit 1, Lesson 1.4, pp. 21–24;
linear relations.	Unit 1, Unit Problem, pp. 48, 49
2. Create a table of values from a linear	Unit 1, Lesson 1.5, pp. 25–28;
relation, graph the table of values, and	Unit 1, Lesson 1.6, pp. 30–34;
analyze the graph to draw conclusions and	Unit 1, Unit Problem, pp. 48, 49
solve problems.	

Patterns and Relations (Variables and Equations)

General Outcome:

• Represent algebraic expressions in multiple ways.

Specific Outcomes	Pearson Mathematics Makes Sense 7
3. Demonstrate an understanding of	Unit 6, Lesson 6.2, pp. 226–230;
preservation of equality of:	Unit 6, Lesson 6.3, pp. 231–235;
• modeling preservation of equality,	Unit 6, Lesson 6.4, pp. 237–239;
concretely, pictorially and symbolically	Unit 6, Lesson 6.5, pp. 240–244;
• applying preservation of equality to	Unit 6, Unit Problem, pp. 252, 253
solve equations	
4. Explain the difference between an	Unit 1, Lesson 1.7, pp. 35–37;
expression and an equation.	Unit 6, Lesson 6.1, pp. 220–224;
	Unit 6, Unit Problem, pp. 252, 253
5. Evaluate an expression given the value	Unit 1, Lesson 1.3, pp. 16–19;
of the variable(s).	Unit 1, Lesson 1.4, pp. 21–24;
	Unit 1, Unit Problem, pp. 48, 49;
	Unit 6, Unit Problem, pp. 252, 253
6. Model and solve problems that can be	Unit 6, Lesson 6.3, pp. 231–235;
represented by one-step linear equations of	Unit 6, Lesson 6.4, pp. 237–239;
the form $x + a = b$, concretely, pictorially	Unit 6, Lesson 6.5, pp. 240–244
and symbolically, where a and b are	
integers.	





Specific Outcomes	Pearson Mathematics Makes Sense 7
7. Model and solve problems that can be	Unit 1, Lesson 1.8, pp. 38–42;
represented by linear equations of the form:	Unit 1, Unit Problem, pp. 48, 49;
• $ax + b = c$	Unit 6, Lesson 6.1, pp. 220–224;
• $ax = b$	Unit 6, Lesson 6.2, pp. 226–230;
x	Unit 6, Lesson 6.4, pp. 237–239;
• $\frac{a}{a} = b, a \neq 0$	Unit 6, Lesson 6.5, pp. 240–244;
	Unit 6, Unit Problem, pp. 252, 253





Shape and Space (Measurement)

General Outcome:

• Use direct or indirect measurement to solve problems.

Specific Outcomes	Pearson Mathematics Makes Sense 7
1. Demonstrate an understanding of circles	Unit 4, Lesson 4.1, pp. 130–132;
by:	Unit 4, Lesson 4.2, pp. 133–137;
• describing the relationships among	Unit 4, Unit Problem, pp. 172, 173
radius, diameter and circumference of	
circles	
 relating circumference to pi 	
• determining the sum of the central	
angles	
• constructing circles with a given radius	
or diameter	
• solving problems involving the radii,	
diameters and circumferences of	
circles.	
2. Develop and apply a formula for	Unit 4, Lesson 4.3, pp. 139–142;
determining the area of:	Unit 4, Lesson 4.4, pp. 143–147;
• triangles	Unit 4, Lesson 4.5, pp. 148–152;
• parallelograms	Unit 4, Game, p. 153;
• circles.	Unit 4, Unit Problem, pp. 172, 173





Shape and Space (3-D Objects and 2-D shapes)

General Outcome:

• Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.

It is expected that students will:

Specific Outcomes	Pearson Mathematics Makes Sense 7
3. Perform geometric constructions,	Unit 8, Lesson 8.1, pp. 300–302;
including:	Unit 8, Lesson 8.2, pp. 303–305;
• perpendicular line segments	Unit 8, Lesson 8.3, pp. 306–309;
• parallel line segments	Unit 8, Lesson 8.4, pp. 310–313;
 perpendicular bisectors 	Unit 8, Unit Problem, pp. 338, 339
• angle bisectors	

Shape and Space (Transformations)

General Outcome:

• Describe and analyze position and motion of objects and shapes.

Specific Outcomes	Pearson Mathematics Makes Sense 7
4. Identify and plot points in the four	Unit 8, Lesson 8.5, pp. 315–319;
quadrants of a Cartesian place using	Unit 8, Lesson 8.6, pp. 320–324;
integral ordered pairs.	Unit 8, Lesson 8.7, pp. 325–329;
	Unit 8, Unit Problem, pp. 338, 339
5. Perform and describe transformations	Unit 8, Lesson 8.6, pp. 320–324;
(translations, rotations or reflections) of a	Unit 8, Lesson 8.7, pp. 325–329;
2-D shape in all four quadrants of a	Unit 8, Technology Lesson, pp. 330, 331;
Cartesian plane (limited to integral number	Unit 8, Unit Problem, pp. 338, 339
vertices).	



Statistics and Probability (Data Analysis)

General Outcome:

• Collect, display and analyze data to solve problems.

It is expected that students will:	
Specific Outcomes	Pearson Mathematics Makes Sense 7
1. Demonstrate an understanding of central	Unit 7, Lesson 7.1, pp. 258–261;
tendency and range by:	Unit 7, Lesson 7.2, pp. 262–266;
• determining the measures of central	Unit 7, Lesson 7.4, pp. 271–275;
tendency (mean, median, mode) and	Unit 7, Technology Lesson, pp. 276, 277;
range	Unit 7, Unit Problem, pp. 296, 297
• determining the most appropriate	
measures of central tendency to report	
findings.	
2. Determine the effect on the man, median	Unit 7, Lesson 7.3, pp. 267–270;
and mode when an outlier is included in a	Unit 7, Technology Lesson, pp. 276, 277
data set.	
3. Construct, label and interpret circle	Unit 4, Lesson 4.6, pp. 156–160;
graphs to solve problems.	Unit 4, Lesson 4.7, pp. 161–164;
	Unit 4, Technology Lesson, pp. 165, 166

Statistic and Probability (Chance and Uncertainty)

General Outcome:

• Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.

Specific Outcomes	Pearson Mathematics Makes Sense 7
4. Express probabilities as ratios, fractions	Unit 7, Lesson 7.5, pp. 279–283;
and percents.	Unit 7, Game, p. 289;
	Unit 7, Unit Problem, pp. 296, 297
5. Identify the sample space (where the	Unit 7, Lesson 7.6, pp. 284–288;
combined sample space has 36 or fewer	Unit 7, Game, p. 289;
elements) for a probability experiment	Unit 7, Unit Problem, pp. 296, 297
involving two independent events.	
6. Conduct a probability experiment to	Unit 7, Lesson 7.6, pp. 284–288;
compare the theoretical probability	Unit 7, Unit Problem, pp. 296, 297
(determined using a tree diagram, table or	
another graphic organize) and experimental	
probability of two independent events.	