

NUMBER

General Outcome
Develop number sense.

5.N.1. Represent and describe whole numbers to 1 000 000.
 [C, CN, T, V]

5.N.2. Apply estimation strategies, including

- front-end rounding
- compensation
- compatible numbers

in problem-solving contexts.
 [C, CN, ME, PS, R, V]

5.N.3. Apply mental math strategies to determine multiplication and related division facts to 81 (9×9).
 [C, CN, ME, R, V]

Recall of multiplication facts to 81 and related division facts is expected by the end of Grade 5.

5.N.4. Apply mental mathematics strategies for multiplication, such as

- annexing then adding zeros
- halving and doubling
- using the distributive property

[C, ME, R]

5.N.5. Demonstrate an understanding of multiplication (1- and 2-digit multipliers and up to 4-digit multiplicands), concretely, pictorially, and symbolically, by

- using personal strategies
- using the standard algorithm
- estimating products to solve problems.

[C, CN, ME, PS, V]

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

- using personal strategies
- using the standard algorithm
- estimating quotients to solve problems.

[C, CN, ME, PS]

5.N.7. Demonstrate an understanding of fractions by using concrete and pictorial representations to

- create sets of equivalent fractions
- compare fractions with like and unlike denominators

[C, CN, PS, R, V]

5.N.8. Describe and represent decimals (tenths, hundredths, and thousandths), concretely, pictorially, and symbolically.
 [C, CN, R, V]

5.N.9. Relate decimals to fractions (tenths, hundredths, thousandths).
 [CN, R, V]

5.N.10. Compare and order decimals (tenths, hundredths, thousandths) by using

- benchmarks
- place value
- equivalent decimals

[CN, R, V]

5.N.11. Demonstrate an understanding of addition and subtraction of decimals (to thousandths), concretely, pictorially, and symbolically, by

- using personal strategies
- using the standard algorithms
- using estimation
- solving problems

[C, CN, ME, PS, R, V]

PATTERNS AND RELATIONS

General Outcome
Use patterns to describe the world and solve problems.

5.PR.1. Determine the pattern rule to make predictions about subsequent elements.
 [C, CN, PS, R, V]

General Outcome
Represent algebraic expressions in multiple ways.

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]

SHAPE AND SPACE

General Outcome
Use direct or indirect measurement to solve problems.

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]

5.SS.2. Demonstrate an understanding of measuring length (mm) by

- 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]

5.SS.3. Demonstrate an understanding of volume by

- selecting and justifying referents for cm^3 or m^3 units
- estimating volume by using referents for cm^3 or m^3
- measuring and recording volume (cm^3 or m^3)
- constructing rectangular prisms for a given volume

[C, CN, ME, PS, R, V]

5.SS.4. Demonstrate an understanding of capacity by

- 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]

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

5.SS.5. Describe and provide examples of edges and faces of 3-D objects, and sides of 2-D shapes that are

- parallel
- intersecting
- perpendicular
- vertical
- horizontal

[C, CN, R, T, V]

5.SS.6. Identify and sort quadrilaterals, including

- rectangles
- squares
- trapezoids
- parallelograms
- rhombuses

according to their characteristics.
 [C, R, V]

General Outcome
Describe and analyze position and motion of objects and shapes.

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]

5.SS.8. Identify a single transformation (translation, rotation, or reflection) of 2-D shapes.
 [C, T, V]

STATISTICS AND PROBABILITY

General Outcome
Collect, display, and analyze data to solve problems.

5.SP.1. Differentiate between first-hand and second-hand data.
 [C, R, T, V]

5.SP.2. Construct and interpret double bar graphs to draw conclusions.
 [C, PS, R, T, V]

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

5.SP.3. Describe the likelihood of a single outcome occurring, using words such as

- impossible
- possible
- certain

[C, CN, PS, R]

5.SP.4. Compare the likelihood of two possible outcomes occurring, using words such as

- less likely
- equally likely
- more likely

[C, CN, PS, R]