

APA Alberta-based Math Curricula: Grade 3 Math

Numbers and comparing

- Write numbers in words
- Ordinal numbers to 100th
- Roman numerals I, V, X, L, C, D, M
- Even and odd I
- Even and odd II
- Skip-counting puzzles
- Number sequences
- Put numbers up to 1,000 in order
- Put numbers in order
- Which number is greatest/least?
- Comparing numbers
- Comparing – with addition and subtraction
- Multi-step inequalities

Place values

- Place value models
- Place value names
- Value of a digit
- Identify the digit with a particular place value
- Convert to/from a number
- Convert between place values
- Convert from expanded form
- Convert between standard and expanded form
- Place value word problems

Addition

- Add two numbers up to three digits
- Addition input/output tables – up to three digits
- Add two numbers up to three digits – word problems
- Complete the addition sentence – up to three digits
- Balance addition equations – up to three digits
- Add three or more numbers up to three digits each
- Add three or more numbers up to three digits – word problems
- Addition patterns over increasing place values
- Add two numbers with four or more digits
- Addition input/output tables – four or more digits
- Add two numbers with four or more digits – word problems
- Complete the addition sentence – four or more digits
- Balance equations – four or more digits
- Add three or more numbers with four or more digits
- Add three or more numbers with four or more digits – word problems
- Addition: fill in the missing digits

Subtraction

- Subtract numbers up to three digits
- Subtraction input/output tables – up to three digits
- Subtract numbers up to three digits – word problems
- Complete the subtraction sentence – up to three digits
- Balance subtraction equations – up to three digits
- Subtraction patterns over increasing place values
- Subtract numbers with four or more digits

- Subtraction input/output tables – four or more digits
- Subtraction: fill in the missing digits

Multiplication

- Multiplication sentences
- Multiplication – facts to 12
- Multiplication word problems – facts to 12
- Missing factors – facts to 12
- Missing factors – facts to 12 – word problems
- Squares up to 20
- Multiplication patterns over increasing place values
- Multiply numbers ending in zeroes
- Multiply a one-digit number by a larger number
- Multiply a one-digit number by a larger number – word problems
- Multiply three or more numbers
- Multiply three or more numbers – word problems
- Multiplication input/output tables
- Box multiplication
- Lattice multiplication

Multiplication – skill builders

- Multiply by 0
- Multiply by 1
- Multiply by 2
- Multiply by 3
- Multiply by 4
- Multiply by 5
- Multiply by 6
- Multiply by 7
- Multiply by 8
- Multiply by 9
- Multiply by 10
- Multiply by 11
- Multiply by 12
- Multiplication tables for 2, 3, 4, 5 and 10
- Multiplication tables for 6, 7, 8 and 9
- Multiplication tables up to 10
- Multiplication facts up to 5×5 : true or false?
- Multiplication facts for 6, 7, 8, 9: true or false?
- Multiplication facts up to 10×10 : true or false?
- Multiplication sentences up to 10×10 : true or false?
- Multiplication facts up to 5×5 : sorting
- Multiplication facts for 6, 7, 8, 9: sorting
- Multiplication facts up to 10×10 : sorting

Division

- Division facts to 5
- Division facts to 10
- Division word problems – facts to 10
- Complete the division sentence – facts to 10
- Division facts to 12
- Division patterns over increasing place values
- Divide numbers ending in zeroes
- Divide larger numbers

- Divide larger numbers – word problems
- Divisibility rules for 2, 5 and 10
- Division input/output tables

Division – skill builders

- Divide by 1
- Divide by 2
- Divide by 3
- Divide by 4
- Divide by 5
- Divide by 6
- Divide by 7
- Divide by 8
- Divide by 9
- Divide by 10
- Divide by 11
- Divide by 12
- Division facts up to 5×5 : true or false?
- Division facts for 6, 7, 8, 9: true or false?
- Division facts up to 10×10 : true or false?
- Division facts up to 10×10 : sorting
- Division sentences up to 10×10 : true or false?

Mixed operations

- Addition, subtraction, multiplication and division facts
- Complete the addition, subtraction, multiplication or division sentence
- Multiplication and division facts up to 5×5 : true or false?
- Multiplication and division facts up to 10×10 : true or false?
- Multiplication and division facts up to 12×12 : true or false?
- Multiplication and division sentences up to 12×12 : true or false?
- Add, subtract, multiply and divide
- Addition, subtraction, multiplication and division word problems
- Interpret data in tables
- Multi-step word problems
- Missing operators

Properties

- Addition, subtraction, multiplication and division terms
- Understanding parentheses
- Properties of addition
- Solve using properties of addition
- Properties of multiplication
- Solve using properties of multiplication
- Distributive property: find the missing factor
- Multiply using the distributive property
- Relate addition and multiplication
- Relate multiplication and division

Equations and variables

- Identify equations
- Solve for the variable
- Write variable equations to represent word problems

Estimation and rounding

- Rounding
- Round money amounts

- Rounding puzzles
- Solve inequalities using estimation
- Estimate sums
- Estimate products
- Estimate quotients

Logical reasoning

- Guess the number
- Largest/smallest number possible
- Find the order
- Age puzzles
- Find two numbers based on sum and difference
- Find two numbers based on sum, difference, product and quotient

Money

- Count coins and bills – up to \$5 bill
- Which picture shows more?
- Purchases – do you have enough money – up to \$10
- Making change
- Inequalities with money
- Put money amounts in order
- Add and subtract money amounts
- Add money amounts – word problems
- Price lists

Time

- Read clocks and write times
- Elapsed time I
- Elapsed time II
- Read a calendar
- Relate time units
- Time patterns
- Convert between hours and fractions of hours
- Reading schedules – 12-hour time
- Reading schedules – 24-hour time
- Time lines

Data and graphs

- Coordinate graphs I
- Coordinate graphs II
- Graph points on a coordinate plane
- Interpret bar graphs
- Create bar graphs
- Interpret line plots
- Create line plots
- Interpret pictographs
- Create pictographs
- Interpret line graphs
- Create line graphs
- Venn diagrams

Measurement

- Read a thermometer
- Reasonable temperature
- Which metric unit of length is appropriate?
- Compare and convert metric units of length

- Which metric unit of mass is appropriate?
- Compare and convert metric units of mass
- Which metric unit of volume is appropriate?
- Compare and convert metric units of volume
- Conversion tables

Geometry

- Identify 2-dimensional and 3-dimensional shapes
- Count and compare sides and angles
- Count and compare edges, vertices and faces
- Symmetry
- Similar and congruent
- Reflection, rotation and translation
- Perimeter
- Perimeter: find the missing side length
- Area
- Create figures with a given area
- Volume
- Angles: greater than, less than or equal to a right angle
- Lines, line segments and rays
- Is it a polygon?
- Triangles: equilateral, isosceles and scalene
- Triangles: acute, right and obtuse

Fractions

- Understand fractions: fraction bars
- Understand fractions: area models
- Fraction review
- Show fractions: fraction bars
- Show fractions: area models
- Fraction review – word problems
- Fractions of number lines: unit fractions
- Fractions of number lines
- Identify fractions on number lines
- Graph unit fractions on number lines
- Graph fractions on number lines
- Graph and compare fractions with like numerators on number lines
- Graph and compare fractions with like denominators on number lines
- Graph and compare fractions on number lines
- Compare fractions
- Equivalent fractions: type the missing numerator or denominator
- Equivalent fractions: choose the equivalent fraction
- Reducing fractions to lowest terms
- Put fractions in order
- Fractions of a number – unit fractions
- Fractions of a number
- Fractions of a number – unit fractions: word problems
- Fractions of a number – word problems

Decimals

- What decimal number is illustrated?
- Convert between decimals and fractions
- Understanding decimals expressed in words
- Number sequences involving decimals

- Inequalities with decimals
- Put decimal numbers in order
- Add and subtract decimals
- Add and subtract decimals – word problems
- Add three or more decimal numbers

Probability and statistics

- Certain, probable, unlikely and impossible
- Mean and mode
- Interpret charts to find mean and mode
- Combinations