



Class-VI MATHS

WHOLE NUMBERS			
A.1	Place values in whole numbers	A.4	Add and subtract whole numbers
A.2	Word names for numbers	A.5	Add and subtract whole numbers: word problems
A.3	Roman numerals		
MULTIPLICATION			
B.1	Multiply whole numbers	B.5	Multiply three or more numbers
B.2	Multiply whole numbers: word problems	B.6	Multiply three or more numbers: word problems
B.3	Multiply numbers ending in zeroes	B.7	Estimate products
B.4	Multiply numbers ending in zeroes: word problems		
DIVISION			
C.1	Divisibility rules	C.4	Estimate quotients
C.2	Division patterns with zeroes	C.5	Divide whole numbers - two-digit divisors
C.3	Divide numbers ending in zeroes: word problems		
NUMBER THEORY			
D.1	Prime or composite	D.5	Highest common factor
D.2	Identify factors	D.6	Lowest common multiple
D.3	Prime factorisation	D.7	HCF and LCM: word problems
D.4	Prime factorisation with exponents		
DECIMALS			
E.1	What decimal number is illustrated?	E.6	Inequalities with decimals
E.2	Decimal place values	E.7	Round decimals
E.3	Word names for decimal numbers	E.8	Round whole numbers and decimals: find the missing digit
E.4	Convert decimals to mixed numbers	E.9	Decimal number lines
E.5	Put decimal numbers in order		
ADD AND SUBTRACT DECIMALS			
F.1	Add and subtract decimal numbers	F.3	Estimate sums and differences of decimals
F.2	Add and subtract decimals: word problems	F.4	Maps with decimal distances
FRACTIONS AND MIXED NUMBERS			
G.1	Fractions and mixed numbers	G.7	Compare fractions with like and unlike denominators
G.2	Understanding fractions: word problems	G.8	Compare fractions: word problems
G.3	Equivalent fractions	G.9	Convert between improper fractions and mixed numbers
G.4	Write fractions in lowest terms	G.10	Convert between decimals and fractions or mixed numbers
G.5	Fractions: word problems	G.11	Put a mix of decimals, fractions and mixed numbers in order
G.6	Lowest common denominator		
ADD AND SUBTRACT FRACTIONS			
H.1	What decimal number is illustrated?	H.6	Inequalities with decimals
H.2	Decimal place values	H.7	Round decimals
H.3	Word names for decimal numbers	H.8	Round whole numbers and decimals: find the missing digit
H.4	Convert decimals to mixed numbers	H.9	Decimal number lines
H.5	Put decimal numbers in order		
INTEGERS			
I.1	Understanding integers	I.3	Graph integers on horizontal and vertical number lines
I.2	Integers on number lines	I.4	Compare and order integers
OPERATIONS WITH INTEGERS			
J.1	Add integers using counters	J.5	Add and subtract integers: find the sign
J.2	Add integers	J.6	Add and subtract integers: input/output tables
J.3	Subtract integers using counters	J.7	Add three or more integers
J.4	Subtract integers		
MIXED OPERATIONS			
K.1	Add, subtract, multiply or divide two whole numbers	K.4	Add and subtract decimals or fractions
K.2	Add, subtract, multiply or divide two whole numbers: word problems	K.5	Add and subtract decimals or fractions: word problems
K.3	Evaluate numerical expressions	K.6	Add, subtract, multiply or divide two integers
PROBLEM SOLVING AND ESTIMATION			
L.1	Estimate to solve word problems	L.4	Guess-and-check word problems
L.2	Multi-step word problems	L.5	Distance/direction to starting point
L.3	Word problems with extra or missing information	L.6	Use logical reasoning to find the order
RATIOS AND RATES			
M.1	Write a ratio	M.6	Unit rates and equivalent rates
M.2	Write a ratio: word problems	M.7	Compare ratios: word problems
M.3	Identify equivalent ratios	M.8	Do the ratios form a proportion?
M.4	Write an equivalent ratio	M.9	Solve the proportion
M.5	Ratio tables	M.10	Scale drawings: word problems
UNITS OF MEASUREMENT			
N.1	Estimate metric measurements	N.4	Convert square and cubic units of length
N.2	Convert and compare metric units	N.5	Convert between cubic metres and litres
N.3	Metric mixed units	N.6	Compare temperatures above and below zero
MONEY			
O.1	Find the number of each type of coin	O.4	Multiply money: word problems
O.2	Add and subtract money amounts	O.5	Divide money amounts
O.3	Add and subtract money amounts: word problems	O.6	Divide money amounts: word problems
TIME			
P.1	Elapsed time	P.4	Convert between 12-hour and 24-hour time
P.2	Time units	P.5	Transportation schedules
P.3	Find start and end times		
EXPRESSIONS AND PROPERTIES			
Q.1	Write variable expressions	Q.6	Properties of addition
Q.2	Evaluate variable expressions	Q.7	Properties of multiplication
Q.3	Properties of addition and multiplication	Q.8	Solve for a variable using properties of multiplication
Q.4	Multiply using the distributive property	Q.9	Identify equivalent expressions
Q.5	Write equivalent expressions using properties		
ONE-VARIABLE EQUATIONS			
R.1	Write variable equations: word problems	R.3	Solve equations
R.2	Solve equations using properties		
TWO-DIMENSIONAL FIGURES			
S.1	Is it a polygon?	S.7	Identify trapeziums
S.2	Types of angles	S.8	Classify quadrilaterals
S.3	Measure angles with a protractor	S.9	Graph triangles and quadrilaterals
S.4	Regular and irregular polygons	S.10	Find the unknown angle in triangles and quadrilaterals
S.5	Number of sides in polygons	S.11	Lines, line segments and rays
S.6	Classify triangles	S.12	Parallel, perpendicular and intersecting lines
		S.13	Parts of a circle
SYMMETRY AND TRANSFORMATIONS			
T.1	Lines of symmetry	T.3	Reflection, rotation and translation
T.2	Rotational symmetry	T.4	Identify congruent and similar figures
CONSTRUCTIONS			
U.1	Construct the midpoint or perpendicular bisector of a segment	U.3	Construct a perpendicular line
U.2	Construct an angle bisector	U.4	Construct an equilateral triangle or regular hexagon
THREE-DIMENSIONAL FIGURES			
V.1	Construct the midpoint or perpendicular bisector of a segment	V.3	Construct a perpendicular line
V.2	Construct an angle bisector	V.4	Construct an equilateral triangle or regular hexagon
		V.5	Three-dimensional figures viewed from different perspectives
GEOMETRIC MEASUREMENT			
W.1	Perimeter	W.5	Area and perimeter of figures on grids
W.2	Area of squares and rectangles	W.6	Area and perimeter: word problems
W.3	Area of compound figures	W.7	Use area and perimeter to determine cost
W.4	Area between two rectangles	W.8	Volume of figures made of unit cubes
DATA AND GRAPHS			
X.1	Interpret pictographs	X.7	Create frequency tables
X.2	Create pictographs	X.8	Interpret bar graphs
X.3	Interpret stem-and-leaf plots	X.9	Create bar graphs
X.4	Create stem-and-leaf plots	X.10	Interpret histograms
X.5	Interpret line plots	X.11	Create histograms
X.6	Create line plots	X.12	Interpret line graphs
		X.13	Create line graphs
PROBABILITY			
Y.1	Combinations	Y.3	Compound events - find the number of outcomes by counting
Y.2	Make predictions		

Class-VII MATHS

NUMBER THEORY			
A.1	Prime or composite	A.6	Lowest common multiple
A.2	Prime factorisation	A.7	HCF and LCM: word problems
A.3	Multiplicative inverses	A.8	Scientific notation
A.4	Divisibility rules	A.9	Compare numbers written in scientific notation
A.5	Highest common factor	A.10	Classify numbers
INTEGERS			
B.1	Understanding integers	B.4	Absolute value and opposite integers
B.2	Integers on number lines	B.5	Compare and order integers
B.3	Graph integers on horizontal and vertical number lines		
OPERATIONS WITH INTEGERS			
C.1	Integer addition and subtraction rules	C.5	Add and subtract integers: word problems
C.2	Add and subtract integers using counters	C.6	Integer multiplication and division rules
C.3	Add and subtract integers	C.7	Multiply and divide integers
C.4	Complete addition and subtraction sentences with integers	C.8	Complete multiplication and division sentences with integers
		C.9	Evaluate numerical expressions involving integers
DECIMALS			
D.1	Decimal numbers review	D.3	Decimal number lines
D.2	Compare and order decimals	D.4	Round decimals
OPERATIONS WITH DECIMALS			
E.1	Prime or composite	E.6	Divide decimals by whole numbers: word problems
E.2	Add and subtract decimals: word problems	E.7	Estimate sums, differences and products of decimals
E.3	Multiply decimals	E.8	Add, subtract, multiply and divide decimals: word problems
E.4	Multiply decimals and whole numbers: word problems	E.9	Multi-step inequalities with decimals
E.5	Divide decimals	E.10	Maps with decimal distances
		E.11	Evaluate numerical expressions involving decimals
FRACTIONS AND MIXED NUMBERS			
F.1	Understanding fractions: word problems	F.6	Compare and order fractions
F.2	Equivalent fractions	F.7	Compare fractions: word problems
F.3	Write fractions in lowest terms	F.8	Convert between mixed numbers and improper fractions
F.4	Fractions: word problems with graphs and tables	F.9	Compare mixed numbers and improper fractions
F.5	Lowest common denominator	F.10	Round mixed numbers
OPERATIONS WITH FRACTIONS			
G.1	Add and subtract fractions	G.10	Multiply mixed numbers
G.2	Add and subtract fractions: word problems	G.11	Multiply fractions and mixed numbers: word problems
G.3	Add and subtract mixed numbers	G.12	Divide whole numbers and unit fractions
G.4	Add and subtract mixed numbers: word problems	G.13	Divide fractions
G.5	Inequalities with addition and subtraction of fractions and mixed numbers	G.14	Divide mixed numbers
G.6	Estimate sums and differences of mixed numbers	G.15	Divide fractions and mixed numbers: word problems
G.7	Multiply fractions and whole numbers	G.16	Estimate products and quotients of fractions and mixed numbers
G.8	Multiply two fractions using models	G.17	Add, subtract, multiply and divide fractions and mixed numbers: word problems
G.9	Multiply fractions	G.18	Evaluate numerical expressions involving fractions
RATIONAL NUMBERS			
H.1	Identify rational numbers	H.5	Add and subtract rational numbers
H.2	Convert between decimals and fractions or mixed numbers	H.6	Apply addition and subtraction rules
H.3	Compare rational numbers	H.7	Multiply and divide rational numbers
H.4	Put rational numbers in order	H.8	Apply multiplication and division rules
EXPONENTS			
I.1	Understanding exponents	I.4	Exponents with negative bases
I.2	Evaluate exponents	I.5	Exponents with decimal and fractional bases
I.3	Solve equations with variable exponents	I.6	Evaluate numerical expressions involving exponents
RATIOS, RATES AND PROPORTIONS			
J.1	Understanding ratios	J.8	Do the ratios form a proportion?
J.2	Identify equivalent ratios	J.9	Do the ratios form a proportion: word problems
J.3	Write an equivalent ratio	J.10	Solve proportions
J.4	Equivalent ratios: word problems	J.11	Solve proportions: word problems
J.5	Unit rates	J.12	Estimate population size using proportions
J.6	Compare ratios: word problems	J.13	Rate of change
J.7	Scale drawings: word problems	J.14	Constant rate of change
PERCENTS			
K.1	What percentage is illustrated?	K.5	Percents of numbers and money amounts
K.2	Convert between percents, fractions and decimals	K.6	Percents of numbers: word problems
K.3	Compare percents to fractions and decimals	K.7	Solve percent equations
K.4	Estimate percents of numbers	K.8	Solve percent equations: word problems
CONSUMER MATHS			
L.1	Add, subtract, multiply and divide money amounts: word problems	L.6	Find the percent: discount and mark-up amounts
L.2	Price lists	L.7	Sale prices: find the original price
L.3	Unit prices	L.8	Multi-step problems with percents
L.4	Unit prices: find the total price	L.9	Estimate tips
L.5	Percent of a number, discount and more	L.10	Simple interest
PROBLEM SOLVING AND ESTIMATION			
M.1	Estimate to solve word problems	M.4	Use Venn diagrams to solve problems
M.2	Multi-step word problems	M.5	Find the number of each type of coin
M.3	Guess-and-check word problems	M.6	Elapsed time word problems
UNITS OF MEASUREMENT			
N.1	Estimate metric measurements	N.4	Convert square and cubic units of length
N.2	Compare and convert metric units	N.5	Convert between cubic metres and litres
N.3	Metric mixed units	N.6	Precision
NUMBER SEQUENCES			
O.1	Identify arithmetic and geometric sequences	O.4	Number sequences: mixed review
O.2	Arithmetic sequences	O.5	Number sequences: word problems
O.3	Geometric sequences	O.6	Evaluate variable expressions for number sequences
		O.7	Write variable expressions for arithmetic sequences
EXPRESSIONS AND PROPERTIES			
P.1	Write variable expressions	P.9	Properties of addition and multiplication
P.2	Write variable expressions: word problems	P.10	Multiply using the distributive property
P.3	Evaluate linear expressions	P.11	Solve equations using properties
P.4	Evaluate multi-variable expressions	P.12	Write equivalent expressions using properties
P.5	Evaluate absolute value expressions	P.13	Add and subtract like terms
P.6	Evaluate nonlinear expressions	P.14	Add, subtract and multiply linear expressions
P.7	Identify terms and coefficients	P.15	Factors of linear expressions
P.8	Sort factors of expressions	P.16	Identify equivalent linear expressions
ONE-VARIABLE EQUATIONS			
Q.1	Which x satisfies an equation?	Q.5	Solve one-step equations
Q.2	Write an equation from words	Q.6	Solve two-step equations
Q.3	Model and solve equations using algebra tiles	Q.7	Solve equations: word problems
Q.4	Write and solve equations that represent diagrams	Q.8	Solve equations involving like terms
		Q.9	Solve equations: complete the solution
TWO-DIMENSIONAL FIGURES			
R.1	Identify and classify polygons	R.10	Interior angles of polygons
R.2	Name, measure and classify angles	R.11	Lines, line segments and half lines
R.3	Classify triangles	R.12	Parallel, perpendicular and intersecting lines
R.4	Identify trapeziums	R.13	Identify complementary, supplementary, vertical, adjacent and congruent angles
R.5	Classify quadrilaterals	R.14	Find measures of complementary, supplementary, vertical and adjacent angles
R.6	Graph triangles and quadrilaterals	R.15	Transversal of parallel lines
R.7	Triangle angle-sum property	R.16	Find lengths and measures of bisected line segments and angles
R.8	Exterior angle property	R.17	Parts of a circle
R.9	Find missing angles in triangles and quadrilaterals	R.18	Symmetry
CONGRUENCE AND SIMILARITY			
S.1	Similar and congruent figures	S.4	Side lengths and angle measures of similar figures
S.2	Side lengths and angle measures of congruent figures	S.5	Similar figures and indirect measurement
S.3	Congruence statements and corresponding parts		
CONSTRUCTIONS			
T.1	Construct the midpoint or perpendicular bisector of a segment	T.4	Construct parallel lines
T.2	Construct an angle bisector	T.5	Construct an equilateral triangle or regular hexagon
T.3	Construct a perpendicular line		
PYTHAGORAS' THEOREM			
U.1	Pythagoras' theorem: find the length of the hypotenuse	U.3	Pythagoras' theorem: word problems
U.2	Pythagoras' theorem: find the missing leg length	U.4	Converse of Pythagoras' theorem: is it a right triangle?
THREE-DIMENSIONAL FIGURES			
V.1	Bases of three-dimensional figures	V.3	Front, side and top view
V.2	Nets of three-dimensional figures		
GEOMETRIC MEASUREMENT			
W.1	Perimeter	W.7	Semicircles: calculate area, perimeter, radius and diameter
W.2	Area of rectangles and parallelograms	W.8	Quarter circles: calculate area, perimeter and radius
W.3	Area of triangles	W.9	Area of compound figures with triangles, semicircles and quarter circles
W.4	Area and perimeter: word problems	W.10	Area between two shapes
W.5	Circles: calculate area, circumference, radius and diameter	W.11	Perimeter, area and volume: changes in scale
W.6	Circles: word problems		
DATA AND GRAPHS			
X.1	Interpret tables	X.7	Create bar graphs
X.2	Interpret line plots	X.8	Interpret histograms
X.3	Create line plots	X.9	Create histograms
X.4	Interpret stem-and-leaf plots	X.10	Create frequency charts
X.5	Create stem-and-leaf plots	X.11	Interpret line graphs
X.6	Interpret bar graphs	X.12	Create line graphs
STATISTICS			
Y.1	Calculate mean, median, mode and range	Y.3	Mean, median, mode and range: find the missing number
Y.2	Interpret charts to find mean, median, mode and range	Y.4	Changes in mean, median, mode and range
PROBABILITY			
Z.1	Probability of simple events	Z.4	Make predictions
Z.2	Probability of opposite, mutually exclusive and overlapping events	Z.5	Compound events: find the number of outcomes
Z.3	Experimental probability	Z.6	Counting principle

Class-VIII MATHS

NUMBER THEORY			
A.1	Factors	A.5	Highest common factor
A.2	Divisibility rules	A.6	Lowest common multiple
A.3	Prime or composite	A.7	HCF and LCM: word problems
A.4	Prime factorisation	A.8	Classify numbers
INTEGERS			
B.1	Integers on number lines	B.3	Compare and order integers
B.2	Graph integers on horizontal and vertical number lines		
OPERATIONS WITH INTEGERS			
C.1	Integer addition and subtraction rules	C.5	Add and subtract integers: word problems
C.2	Add and subtract integers using counters	C.6	Integer multiplication and division rules
C.3	Add and subtract integers	C.7	Multiply and divide integers
C.4	Add and subtract three or more integers	C.8	Evaluate numerical expressions involving integers
RATIONAL NUMBERS			
D.1	Identify rational and irrational numbers	D.5	Convert between decimals and fractions or mixed numbers
D.2	Write fractions in lowest terms	D.6	Compare rational numbers
D.3	Lowest common denominator	D.7	Put rational numbers in order
D.4	Round decimals and mixed numbers		
OPERATIONS WITH RATIONAL NUMBERS			
E.1	Reciprocals and multiplicative inverses	E.5	Multiply and divide rational numbers
E.2	Add and subtract rational numbers	E.6	Multiply and divide rational numbers: word problems
E.3	Add and subtract rational numbers: word problems	E.7	Apply multiplication and division rules
E.4	Apply addition and subtraction rules	E.8	Apply addition, subtraction, multiplication and division rules
		E.9	Evaluate numerical expressions involving rational numbers
EXPONENTS AND ROOTS			
F.1	Understanding exponents	F.11	Power rule
F.2	Evaluate exponents	F.12	Evaluate expressions using properties of exponents
F.3	Solve equations with variable exponents	F.13	Identify equivalent expressions involving exponents
F.4	Exponents with negative bases	F.14	Square roots of perfect squares
F.5	Exponents with decimal and fractional bases	F.15	Positive and negative square roots
F.6	Understanding negative exponents	F.16	Estimate positive and negative square roots
F.7	Evaluate negative exponents	F.17	Relationship between squares and square roots
F.8	Multiplication with exponents	F.18	Solve equations involving squares and square roots
F.9	Division with exponents	F.19	Cube roots of perfect cubes
F.10	Multiplication and division with exponents	F.20	Estimate cube roots
		F.21	Solve equations involving cubes and cube roots
SCIENTIFIC NOTATION			
G.1	Convert between standard and scientific notation	G.3	Multiply numbers written in scientific notation
G.2	Compare numbers written in scientific notation	G.4	Divide numbers written in scientific notation
RATIOS, RATES AND PROPORTIONS			
H.1	Understanding ratios	H.8	Do the ratios form a proportion?
H.2	Identify equivalent ratios	H.9	Do the ratios form a proportion: word problems
H.3	Write an equivalent ratio	H.10	Solve proportions
H.4	Equivalent ratios: word problems	H.11	Estimate population size using proportions
H.5	Unit rates	H.12	Scale drawings: word problems
H.6	Compare ratios: word problems	H.13	Rate of change
H.7	Solve proportions: word problems	H.14	Constant rate of change
PROPORTIONAL RELATIONSHIPS			
I.1	Find the constant of proportionality from a table	I.6	Identify proportional relationships
I.2	Write equations for proportional relationships from tables	I.7	Graph proportional relationships
I.3	Identify proportional relationships by graphing	I.8	Interpret graphs of proportional relationships
I.4	Find the constant of proportionality from a graph	I.9	Write and solve equations for proportional relationships
I.5	Write equations for proportional relationships from graphs		
PERCENTS			
J.1	Convert between percents, fractions and decimals	J.7	Percents of numbers: word problems
J.2	Compare percents to fractions and decimals	J.8	Compare percents of numbers
J.3	Find what percent one number is of another	J.9	Solve percent equations
J.4	Find what percent one number is of another: word problems	J.10	Percent of change
J.5	Estimate percents of numbers	J.11	Percent of change: word problems
J.6	Percents of numbers and money amounts		
CONSUMER MATHS			
K.1	Price lists	K.6	Sale prices: find the original price
K.2	Unit prices	K.7	Multi-step problems with percents
K.3	Unit prices: find the total price	K.8	Estimate tips
K.4	Percent of a number: VAT, discount and more	K.9	Simple interest
K.5	Find the percent: discount and mark-up	K.10	Compound interest
UNITS OF MEASUREMENT			
L.1	Convert rates and measurements: metric units	L.3	Convert square and cubic units of length
L.2	Metric mixed units	L.4	Convert between cubic metres and litres
		L.5	Precision
PROBLEM SOLVING			
M.1	Multi-step word problems	M.3	Use Venn diagrams to solve problems
M.2	Guess-and-check word problems	M.4	Elapsed time word problems
COORDINATE PLANE			
N.1	Points on a coordinate plane	N.3	Follow directions on a coordinate plane
N.2	Quadrants and axes		
TWO-DIMENSIONAL FIGURES			
O.1	Identify and classify polygons	O.10	Interior angles of polygons
O.2	Classify triangles	O.11	Lines, line segments and half lines
O.3	Identify trapeziums	O.12	Identify complementary, supplementary, vertical, adjacent and congruent angles
O.4	Classify quadrilaterals	O.13	Find measures of complementary, supplementary, vertical and adjacent angles
O.5	Graph triangles and quadrilaterals	O.14	Transversal of parallel lines
O.6	Properties of parallelograms	O.15	Find lengths and measures of bisected line segments and angles
O.7	Properties of rhombuses	O.16	Parts of a circle
O.8	Properties of squares and rectangles	O.17	Symmetry
O.9	Find missing angles in triangles and quadrilaterals	O.18	Count lines of symmetry
		O.19	Draw lines of symmetry
CONGRUENCE AND SIMILARITY			
P.1	Similar and congruent figures	P.3	Congruence statements and corresponding parts
P.2	Side lengths and angle measures of congruent figures	P.4	Congruent triangles: SSS, SAS and ASA
		P.5	Side lengths and angle measures of similar figures
CONSTRUCTIONS			
Q.1	Construct the midpoint or perpendicular bisector of a segment	Q.4	Construct a perpendicular line
Q.2	Construct an angle bisector	Q.5	Construct parallel lines
Q.3	Construct a congruent angle	Q.6	Construct an equilateral triangle or regular hexagon
PYTHAG			