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India

Skills available for India class V maths curriculum

Objectives are in black and IXL maths skills are in dark green. Hold your mouse over the name of a skill to view a sample question. Click on the name of a skill to practise that skill.

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National Council of Education Research and Training Syllabus

Actions

Print curriculum

5.G Geometry

5.G.A Shapes & Spatial Understanding

5.G.A.1 Gets the feel of perspective while drawing a 3-D object in 2-D.

Identify three-dimensional figures (V-O.9)

Count vertices, edges and faces (V-O.10)

Three-dimensional figures viewed from different perspectives (V-O.12)

5.G.A.2 Gets the feel of an angle through observation and paper folding.

Types of angles (V-O.4)

Measure angles with a protractor (V-O.5)

5.G.A.3 Identifies right angles in the environment.

5.G.A.4 Classifies angles into right, acute and obtuse angles.

Types of angles (V-O.4)

5.G.A.5 Represents right angle, acute angle and obtuse angle by drawing and tracing.

5.G.A.6 Explores intuitively rotations and reflections of familiar 2-D shapes.

Lines of symmetry (V-O.6)

Rotational symmetry (V-O.7)

5.G.A.7 Explores intuitively symmetry in familiar 3-D shapes.

5.G.A.8 Makes the shapes of cubes, cylinders and cones using nets especially designed for this purpose.

Nets of three-dimensional figures (V-O.11)

5.N Numbers

5.N.A Numbers and Operations

5.N.A.1 Finds place value in numbers beyond 1000.

Place values (V-A.1)

Convert between place values (V-A.2)

5.N.A.2 Appreciates the role of place value in addition, subtraction and multiplication algorithms.

Add and subtract whole numbers (V-B.1)

Complete addition and subtraction sentences (V-B.3)

Fill in the missing digits (V-B.4)

Choose numbers with a particular sum or difference (V-B.5)

Multiply by one-digit numbers (V-C.1)

Multiplication patterns over increasing place values (V-C.3)

Multiply numbers ending in zeroes (V-C.4)

Multiply by 2-digit numbers: complete the missing steps (V-C.12)

Multiply 2-digit numbers by 2-digit numbers (V-C.13)

Multiply 2-digit numbers by larger numbers (V-C.15)

5.N.A.3 Uses informal and standard division algorithms.

Division facts to 12 (V-D.1)

Division facts to 12: word problems (V-D.2)

Divisibility rules (V-D.3)

Divisibility rules: word problems (V-D.4)

Divide by one-digit numbers (V-D.5)

Divide by one-digit numbers: word problems (V-D.6)

Division patterns over increasing place values (V-D.9)

Divide numbers ending in zeroes (V-D.10)

Divide numbers ending in zeroes: word problems (V-D.11)

Divide by two-digit numbers (V-D.12)

Divide by two-digit numbers: word problems (V-D.13)

Choose numbers with a particular quotient (V-D.14)

5.N.A.4 Explains the meaning of factors and multiples.

Prime or composite (VI-D.1)

Identify factors (VI-D.2)

5.N.B Mental Arithmetic

5.N.B.1 Estimates sums, differences, products and quotients and verifies using approximation.

Estimate sums and differences of whole numbers (V-B.7)

Estimate sums and differences: word problems (V-B.8)

Estimate products (V-C.8)

Estimate products: word problems (V-C.9)

Estimate quotients: word problems (V-D.8)

5.N.C Fractional numbers

5.N.C.1 Finds the fractional part of a collection.

Fractions review (V-F.1)

Fractions of a group: word problems (V-F.6)

Fractions of a number (V-F.12)

Fractions of a number: word problems (V-F.13)

5.N.C.2 Compares fractions.

Compare fractions (V-F.10)

Put fractions in order (V-F.11)

5.N.C.3 Identifies equivalent fractions.

Equivalent fractions (V-F.7)

Patterns of equivalent fractions (V-F.8)

Write fractions in lowest terms (V-F.9)

5.N.C.4 Estimates the degree of closeness of a fraction to known fractions (1/2, 1/4, 3/4 etc.)

5.N.C.5 Uses decimal fractions in the context of units of length and money.

Compare and convert metric units of length (V-N.2)

5.N.C.6 Expresses a given fraction in decimal notation and vice versa.

Convert fractions to decimals (V-E.11)

Convert decimals to fractions (V-E.12)

5.MON Money

5.MON.1 Applies the four operations in solving problems involving money.

Add and subtract money amounts (V-I.1)

Add and subtract money: word problems (V-I.2)

Multiply money amounts: word problems (V-I.3)

Divide money amounts: word problems (V-I.4)

Price lists (V-I.5)

Unit prices (V-I.6)

5.MEA Measurement

5.MEA.A Length

5.MEA.A.1 Determines area and perimeter of simple geometrical figures.

Perimeter of polygons (IV-N.2)

Find the area or missing side length of a rectangle (IV-N.10)

Perimeter (V-P.1)

Area of squares and rectangles (V-P.3)

Area and perimeter of figures on grids (V-P.4)

Area and perimeter: word problems (V-P.5)

5.MEA.A.2 Applies the four operations in solving problems involving length, weight and volume.

5.MEA.A.3 Relates commonly used larger and smaller units of length, weight and volume and converts one to the other.

Choose the appropriate metric unit of measure (V-N.1)

Compare and convert metric units of length (V-N.2)

Compare and convert metric units of mass (V-N.3)

Compare and convert metric units of volume (V-N.4)

5.MEA.A.4 Applies simple fractions to quantities.

5.MEA.A.5 Converts fractional larger unit into complete smaller units.

Metric mixed units (V-N.6)

5.MEA.A.6 Appreciates volume of a solid body: intuitively and also by informal measurement.

Volume of figures made of unit cubes (V-P.7)

5.MEA.A.7 Uses addition and subtraction in finding time intervals in simple cases.

Convert time units (V-M.1)

Add and subtract mixed time units (V-M.2)

Elapsed time (V-M.3)

Find start and end times: word problems (V-M.4)

5.DH Data Handling

5.DH.1 Collects two-dimensional quantitative data. represents the data in the form of a table.

Read a table (V-K.1)

Frequency charts (V-K.12)

5.DH.2 Draws a bar graph or a pictograph to present a data.

Interpret bar graphs (V-K.4)

Create bar graphs (V-K.5)

Interpret pictographs (V-K.6)

Create pictographs (V-K.7)

5.P Patterns

5.P.1 Identifies patterns in square numbers, triangular numbers.

5.P.2 Relates sequences of odd numbers between consecutive square numbers.

5.P.3 Makes border strip and tiling patterns.

Number sequences: mixed review (V-J.5)