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India



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4.G Geometry

4.G.A Shapes & Spatial Understanding

4.G.A.1 Draws a circle free hand and with compass.**4.G.A.2 Identifies centre, radius and diameter of a circle.****4.G.A.3 Uses Tangrams to create different shapes.****4.G.A.4 Tiles geometrical shapes: using one or two shapes.****4.G.A.5 Chooses a tile among a given number of tiles that can tile a given region both intuitively and experimentally.****4.G.A.6 Explores intuitively the area and perimeter of simple shapes.**

Find the area of rectangles and squares (III-Q.10)

Perimeter of rectangles (IV-N.1)

Perimeter of polygons (IV-N.2)

Perimeter of rectilinear shapes (IV-N.3)

Find the area of figures made of unit squares (IV-N.6)

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

Area and perimeter: word problems (IV-N.11)

4.G.A.7 Makes 4-faced, 5-faced and 6-faced cubes from given nets especially designed for the same.

Nets of three-dimensional figures (IV-M.6)

4.G.A.8 Explores intuitively the reflections through inkblots, paper cutting and paper folding.

Identify lines of symmetry (IV-M.8)

4.G.A.9 Reads and draws 3-D objects, making use of the familiarity with the conventions used in this.

Identify three-dimensional figures (IV-M.2)

Which three-dimensional figure is being described? (IV-M.5)

4.G.A.10 Draws intuitively the plan, elevation and side view of simple objects.

Count vertices, edges and faces (IV-M.3)

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

4.N Numbers

4.N.A Numbers and Operations**4.N.A.1 Writes multiplication facts.**

Multiplication facts to 10 (IV-D.1)

Multiplication facts up to 10: find the missing factor (IV-D.2)

4.N.A.2 Writes tables up to 10×10 .

Multiplication facts to 10 (IV-D.1)

Multiplication facts up to 10: find the missing factor (IV-D.2)

4.N.A.3 Multiplies two and three digit numbers using lattice algorithm and the standard (column) algorithm.

Multiply 1-digit numbers by larger numbers (IV-D.5)

Multiplication patterns over increasing place values (IV-D.6)

Properties of multiplication (IV-D.7)

Lattice multiplication (IV-D.12)

Multiply a two-digit number by a two-digit number: complete the missing steps (IV-D.13)

Multiply a two-digit number by a two-digit number (IV-D.14)

Choose numbers with a particular product (IV-D.16)

Multiply a two-digit number by a three-digit number: complete the missing steps (IV-D.17)

Multiply a two-digit number by a three-digit number (IV-D.18)

Multiply numbers ending in zeroes (IV-D.20)

Multiply three numbers (IV-D.22)

4.N.A.4 Divides a given number by another number in various ways such as:**4.N.A.4.a by drawing dots.****4.N.A.4.b by grouping.**

Division facts to 10: word problems (IV-E.2)

Complete the division table (IV-E.6)

4.N.A.4.c by using multiplication facts.

Properties of division (IV-E.3)

Choose numbers with a particular quotient (IV-E.8)

Divide numbers ending in zeroes (IV-E.9)

4.N.A.4.d by repeated subtraction.

Division facts to 10 (IV-E.1)

Divide larger numbers (IV-E.4)

4.N.A.5 Applies the four operations to life situations.

Missing operators (III-S.11)

Add numbers up to five digits: word problems (IV-B.2)

Subtract numbers up to five digits: word problems (IV-C.2)

Multiply a two-digit number by a two-digit number: word problems (IV-D.15)

Multiply a two-digit number by a three-digit number: word problems (IV-D.19)

Multiply numbers ending in zeroes: word problems (IV-D.21)

Divide larger numbers: word problems (IV-E.5)

Interpret remainders (IV-E.7)

Estimate quotients: word problems (IV-E.10)

Add, subtract, multiply and divide (IV-F.1)
Addition, subtraction, multiplication and division word problems (IV-F.2)
Estimate sums, differences, products and quotients: word problems (IV-F.3)
Multi-step word problems (IV-F.4)
Word problems with extra or missing information (IV-F.5)
Solve word problems using guess-and-check (IV-F.6)

4.N.A.6 Frames word problems.

4.N.A.7 Estimates sums, differences and products of given numbers.

Estimate sums (IV-B.8)
Estimate sums: word problems (IV-B.9)
Estimate differences (IV-C.6)
Estimate differences: word problems (IV-C.7)
Estimate products - multiply by larger numbers (IV-D.9)
Estimate products: word problems (IV-D.10)

4.N.B Mental Arithmetic

4.N.B.1 Adds and subtracts multiples of 10 and 100, mentally.

Addition patterns over increasing place values (IV-B.6)
Mentally add and subtract numbers ending in zeroes (IV-F.8)

4.N.B.2 Completes multiplication facts by adding partial products, mentally (e.g. $7 \times 6 = 5 \times 6 + 2 \times 6$).

4.N.C Fractional Numbers

4.N.C.1 Identifies half, one fourth and three-fourths of a whole.

Halves and quarters (IV-O.1)
Equal parts (IV-O.2)
Simple fractions: what fraction does the shape show? (IV-O.3)

4.N.C.2 Identifies the symbols, $1/2$, $1/4$, $3/4$.

Simple fractions: which shape matches the fraction? (IV-O.4)
Simple fractions: parts of a group (IV-O.5)

4.N.C.3 Explains the meaning of $1/2$, $1/4$ and $3/4$.

Halves and quarters (IV-O.1)
Equal parts (IV-O.2)

4.N.C.4 Appreciates equivalence of $2/4$ and $1/2$; and of $2/2$, $3/3$, $4/4$ and 1.

Equivalent fractions (V-F.7)
Patterns of equivalent fractions (V-F.8)

4.MON Money

4.MON.1 Converts Rupees to Paise.

4.MON.2 Adds and subtracts amounts using column addition and subtraction with regrouping.

Add and subtract money amounts (IV-J.3)

4.MON.3 Uses operations to find totals, change, multiple costs and unit cost.

Compare money amounts (IV-J.1)
Add, subtract, multiply and divide money amounts (IV-J.4)
Making change (IV-J.5)
Price lists (IV-J.6)
Price lists with multiplication (IV-J.7)
Unit prices (IV-J.8)

Use perimeter to determine cost (IV-N.5)

4.MON.4 Estimates roughly the totals and total cost.

Round money amounts (IV-J.2)

4.MEA Measurement

4.MEA.A Length

4.MEA.A.1 Relates metre with centimetre;

Choose the appropriate metric unit of measure (IV-K.1)

Compare and convert metric units of length (IV-K.2)

4.MEA.A.2 Converts metre into centimetres and vice versa.

Compare and convert metric units of length (IV-K.2)

4.MEA.A.3 Solves problems involving length and distances.

4.MEA.A.4 Estimates length of an object and distance between two given locations.

Choose the appropriate metric unit of measure (IV-K.1)

4.MEA.B Weight

4.MEA.B.1 Weighs objects using a balance and standard units.

Compare and convert metric units of mass (IV-K.3)

4.MEA.B.2 Determines sums and differences of weights.

Metric mixed units (IV-K.5)

4.MEA.B.3 Estimates the weight of an object and verifies using a balance.

Choose the appropriate metric unit of measure (IV-K.1)

4.MEA.C Volume

4.MEA.C.1 Measures volumes of given liquid using containers marked with standard units.

Compare and convert metric units of volume (IV-K.4)

4.MEA.C.2 Determines sums and differences of volumes.

Metric mixed units (IV-K.5)

4.MEA.C.3 Estimates the volume of a liquid contained in a vessel and verifies by measuring.

Choose the appropriate metric unit of measure (IV-K.1)

4.MEA.D Time

4.MEA.D.1 Computes the number of weeks in a year.

Relate time units (II-M.6)

4.MEA.D.2 Correlates the number of days in a year with the number of days in each month.

4.MEA.D.3 Justifies the reason for the need of a leap year.

4.MEA.D.4 Reads clock time to the nearest hours and minutes.

Read clocks and write times (III-O.3)

Time patterns (IV-L.9)

4.MEA.D.5 Expresses time, using the terms, 'a.m.' and 'p.m.'

A.M. or P.M. (IV-L.3)

Find start and end times: multi-step word problems (IV-L.5)

Convert between 12-hour and 24-hour time (IV-L.6)

Transportation schedules - 12-hour time (IV-L.7)

Transportation schedules - 24-hour time (IV-L.8)

4.MEA.D.6 Estimates the duration of familiar events.

4.MEA.D.7 Finds approximate time elapsed by (to the nearest hour) forward counting.

Elapsed time (IV-L.4)

4.MEA.D.8 Computes the number of days between two dates.

4.DH Data Handling

4.DH.1 Collects data and represents in the form of bar graphs;

Interpret bar graphs (IV-H.2)

Create bar graphs (IV-H.3)

4.DH.2 Draws Inferences by discussing with the teacher.

Find the order (IV-G.3)

Read a table (IV-H.1)

Interpret bar graphs (IV-H.2)

Create bar graphs (IV-H.3)

Interpret line plots (IV-H.4)

Create line plots (IV-H.5)

Frequency charts (IV-H.6)

Stem-and-leaf plots (IV-H.7)

Choose the best type of graph (IV-H.8)

4.P Patterns

4.P.1 Identifies patterns in multiplication and division: multiples of 9,

4.P.2 Casts out nines from a given number to check if it is a multiple of nine.

Divisibility rules (IV-E.11)

4.P.3 Multiplies and divides by 10s, 100s.

Multiply numbers ending in zeroes (IV-D.20)

Divide numbers ending in zeroes (IV-E.9)

Division patterns over increasing place values (IV-E.13)

4.P.4 Identifies geometrical patterns based on symmetry.

Identify lines of symmetry (IV-M.8)

Rotational symmetry (IV-M.9)