# Numbers

### 1 | *Comprehension of cardinal numbers.*

1.1 Identify numbers in millions.

1.2 Read and write numbers in millions.

1.3 Determine the number of millions, hundred-thousands, ten-thousands,thousands, hundreds, tens and ones in a seven digit number.

### 2 | *Arithmetical operations.*

2.1 Add, subtract, multiply and divide whole numbers.

2.2 Solve word problems involving addition, subtraction, multiplication and division of whole numbers.

### 3 | *Types of numbers.*

3.1 Identify whole numbers, even numbers and odd numbers.

3.2 Identify prime numbers up to 100.

3.3 Give multiples of numbers.

3.4 Give the factors of numbers up to 50.

### 4 | *Divisibility, prime factorization and L.C.M.*

4.1 Use the divisibility rules of 2, 3, 4, 5, 6, 9 and 10.

4.2 Find the prime factorization of 2-3 digit numbers.

4.3 Find the lowest common multiples of two to three 1-2 digit numbers.

# Decimals

| **1** | *Comprehension of decimal numbers.* |
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1.1 Read and interpret decimal numbers up to 3 decimal places.
1.2 Arrange decimal numbers in order.
1.3 Compare decimal numbers using > or <.

| **2** | *Operation of decimal numbers.* |
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2.1 Addition of 2-3 decimal numbers up to 3 decimal places.
2.2 Subtraction of decimal numbers up to 3 decimal places.
2.3 Solve operations involving addition and subtraction of decimal numbers up to 3 decimal places.
2.4 Multiplication of decimal number by a decimal number (up to 3 decimal places).
2.5 Division of decimal numbers (up to 3 decimal places) by whole numbers (where dividend should be divisible by the divisor).
2.6 Multiplication and division of decimals by 10, 100, 1000 etc.

| **3** | *Application of decimal numbers.* |
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3.1 Solve word problems involving decimal numbers.

# Directed Numbers

| **1** | *Comprehension of directed numbers.* |
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1.1 Use of positive and negative numbers.
1.2 Compare positive and negative numbers using > or <.
1.3 Addition of positive and negative numbers (2 numbers).
1.4 Subtraction of positive and negative numbers (2 numbers).
1.5 Multiplication of positive and negative numbers.
1.6 Division of positive and negative numbers.

# Geometry

## 1   *Comprehension of angles.*

    1.1   Measure angles less than $360^0$.
    1.2   Draw angles less than $360^0$ using a protractor.
    1.3   Recognise acute, obtuse, reflex ,right angles and straight angles.
    1.4   Naming angles (e.g. $\angle$ ABC,   $x$).
    1.5   Identify and name complementary angles, supplementary angles and angles at a point.
    1.6   Find unknown angles involving a right angle, angles on a straight line, angles at a point (to find only one angle).

## 2   *Geometric construction.*

    2.1   Bisect a given angle
    2.2   Construct $60^0$, $30^0$, $90^0$, $45^0$ and $120^0$
    2.3   Draw quadrilaterals accurately.

$\angle$

# Ratio and Proportion

## 1   *Comprehension of ratio.*

    1.1   Introduce the meaning the ratio notation "**:**" .
    1.2   Use ratios to show the relative sizes of two quantities.
    1.3   Simplify ratios with whole numbers.

## 2   *Comprehension of proportion.*

    2.1   Find the missing number in equal ratios.
    2.2   Solve simple word problems involving direct proportions.

# Perimeter

| **1** | ***Comprehension of perimeter.*** |
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    1.1  Find the perimeter of different shapes when the sides are given.

    1.2  Introduce the formulae for finding the perimeter of squares and rectangles.

    1.3  Find the perimeter of compound figures, where the dimension of some sides are not given (exclude giving semi circles).

    1.4  Find the circumference of circles, where the radius or diameter is given.

| **2** | ***Application of perimeter.*** |
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    2.2  Solve word problems involving perimeter.

# Area

| **1** | ***Comprehension of area.*** |
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    1.1  Use formula to calculate the area of rectangles, squares, triangles and circles.

    1.2  Find the area of compound figures made up of rectangles and/or squares and/or triangles.

    1.3  Find the area of shaded regions made up of rectangles and/or squares and/or triangles and/or circles.

| **2** | ***Application of area.*** |
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    2.1  Solve word problems involving area of rectangles, squares, triangles and circles.