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## Numbers

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### 1 *Comprehension of cardinal numbers.*

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- ◆ 1.1 Identify numbers from 100 000 to 999 999
- 1.2 Read and write numbers from 100 000 to 999 999
- ◆ 1.3 Order numbers from 0 to 999 999.
- ◆ 1.4 Determine the number of hundred-thousands, ten-thousands, thousands, hundreds, tens and ones in a six digit number.
- ◆ 1.5 Write two to six digit numbers in expanded form.
- ◆ 1.6 Compare up to six digit numbers using  $>$  or  $<$ .

### 2 *Types of numbers.*

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- 2.1 Identify whole numbers.
- 2.2 Identify odd and even numbers less than 100.
- 2.3 Identify prime numbers up to 30.

### 3 *Other numerals.*

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- 3.1 Identify, read and write numerals in Arabic script to represent numbers.
- 3.2 Identify, read and write Roman numerals up to 30.

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# Addition

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## 1 *Comprehension of addition.*

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- ◆ 1.1 Add 2-3 four digit numbers.
- ◆ 1.2 Add 2-5 one to two digit numbers.

## 2 *Mental addition.*

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- 2.1 Add five 1-digit numbers mentally with sums up to 45.

## 3 *Application of addition.*

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- 3.1 Solve one to two step word problems involving addition of 2-4 digit numbers.

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# Subtraction

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## 1 *Comprehension of subtraction.*

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- ◆ 1.1 Subtract 2-4 digit numbers for minuends up to 9 999.
- ◆ 1.2 Solve operations involving addition and subtraction of 2-5 digit numbers.

## 2 *Mental subtraction.*

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- 2.1 Subtract mentally 1-2 digit numbers with minuends up to 30.

## 3 *Application of subtraction.*

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- 3.1 Solve one to two step word problems involving subtraction of 2-4 digit numbers.
- 3.2 Solve one to two step word problems involving addition and subtraction of 2-4 digit numbers.

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# Multiplication

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**1** *Comprehension of multiplication.*

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- 1.1 Multiply 2-4 digit numbers by 1-digit numbers.
- 1.2 Multiply 2-4 digit numbers by 2-digit numbers.

**2** *Comprehension of multiples.*

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- 2.1 Give the multiples of 1-2 digit numbers.
- 2.2 Find the lowest common multiple of two 1-2 digit numbers.

**3** *Mental multiplication.*

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- 3.1 Multiply mentally, numbers whose product is not greater than 90.

**4** *Application of multiplication.*

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- 4.1 Solve one step word problems involving multiplication of whole numbers, including money.

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# Division

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**1** *Comprehension of division.*

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- 1.1 Divide 4-digit numbers by 1-digit numbers.
- 1.2 Divide 3-4 digit numbers by 2-digit numbers, where the divisors are up to 25.

**2** *Comprehension of factors.*

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- 2.1 Give the factors of numbers up to 30.
- 2.2 Find the prime factorization of 1-2 digit numbers.

**3** *Divisibility rules.*

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- 3.1 Use the divisibility rules of 2, 3 and 5 in dividing.

**4** *Mental division.*

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- 4.1 Divide mentally, whole numbers with dividends through 81, by 1-digit divisors without remainders.

**5** *Application of division.*

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- 5.1 Solve one step word problems involving division of whole numbers, including money.

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# Decimals

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## **1** *Comprehension of decimal numbers.*

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- 1.1 Read and interpret decimal numbers up to 2 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 decimal numbers up to 2 decimal places including money.
- 2.2 Subtraction of decimal numbers up to 2 decimal places including money.
- 2.3 Multiplication of decimal numbers up to 2 decimal places by 1-digit whole numbers, including money.

## **3** *Application of decimal numbers.*

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- 3.1 Solve one to two step word problems involving addition and subtraction of decimal numbers (including money).
- 3.2 Solve one step word problems involving multiplication of decimal numbers (including money).

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# Fractions

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## 1 *Comprehension of fractions.*

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- 1.1 Form fractions from given information.
- 1.2 Form an equivalent fraction to a given fraction (e.g.  $\frac{14}{21}$ ,  $\frac{4}{7} = \frac{32}{56}$ ).
- 1.3 Reducing fractions to their lowest term (numerator and denominator  $\leq 60$ ).
- 1.4 Compare proper fractions with different denominators (denominators less than 10).
- 1.5 Convert improper fractions to mixed numbers (numerator  $< 90$ , denominator  $< 10$ , e.g.     ).
- 1.6 Convert mixed numbers to improper fractions (where the whole number, numerator and the denominator of the mixed number  $< 10$ ).

## 2 *Addition and subtraction of fractions.*

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- 2.1 Carry out addition of <sup>89</sup>two proper fractions (where the denominator is a 1-digit number) with different denominators.
- 2.2 Carry out subtraction of a proper fraction (where the denominator is a 1-digit number) and a whole number.
- 2.3 Carry out subtraction of proper fractions (where the denominator is a 1-digit number) with different denominators.

## 3 *Multiplication and division of fractions.*

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- 3.1 Carry out multiplication of proper fraction (where the denominator is a 1-digit number) and a whole number less than 10.
- 3.2 Carry out multiplication of two proper fractions (where the denominator is a 1-digit number).
- 3.3 Carry out division of a proper fraction (where the denominator is a 1-digit number) and a whole number less than 10.
- 3.4 Carry out division of two proper fractions (where the denominator is a 1-digit number).

## 4 *Application of fractions.*

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- 4.1 Solve word problems involving fractions.

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# Geometry

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## 1 *Comprehension of shapes.*

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- ◆ 1.1 Recognise and name different types of triangles (equilateral triangle, isosceles triangle, scalene triangle and right-angled triangle) and quadrilaterals (square, rectangle, parallelogram, trapezium and rhombus).
- 1.2 Draw different types of quadrilaterals.

## 2 *Comprehension of angles.*

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- 2.1 Name angles using three letters.
- 2.2 Recognise acute, obtuse and right angles.
- 2.3 Estimate and measure angles less than 180 in degrees.
- 2.4 Draw angles less than 180° using a protractor.

## 3 *Geometric construction.*

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- 3.1 Bisect lines of given lengths in centimetres and millimetres.
- 3.2 Construct triangles when three sides are given.

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# Average

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## 1 *Comprehension of average.*

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- 1.1 Find the average of 2-5 two digit numbers.

## 2 *Application of average.*

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- 2.1 Solve word problems involving averages of 2-5 two digit numbers.

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# Graph

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**1** *Comprehension of graphs.*

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- 1.1 Read and interpret data presented in a line graph.
- 1.2 Construct line graphs using data given.

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# Perimeter

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**1** *Comprehension of perimeter.*

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- 1.1 Find the perimeter of different shapes when the sides are given.
- 1.2 Find the perimeter of compound figures made up of rectangles and / or squares and / or triangles.

**2** *Application of perimeter.*

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- 2.1 Solve word problems involving perimeters of different shapes when the sides are given.

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# Area

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**1** *Comprehension of area.*

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- 1.1 Use formula to calculate the area of rectangles, squares and triangles.
- 1.2 Find the area of compound figures made up of rectangles and / or squares and / or triangles.

**2** *Application of area.*

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- 2.1 Solve word problems involving areas of rectangles, squares and triangles.

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# Volume

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**1** *Comprehension of volume.*

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- 1.1 Use formula to calculate the volume of cuboids and cubes.

**2** *Application of volume.*

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- 2.1 Solve word problems involving volume of cuboids and cubes.