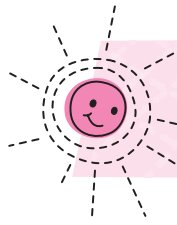


<b>1. Number system</b> .....	5
• Numerals on abacus and number name	
• Place Value and Expanded Form	
• Order of Numbers	
• Forming Numbers	
• Rounding Off	
• Roman Numerals	
• Exercise	
<b>2. Addition</b> .....	14
• Properties of addition	
• Addition of 4 and 5 digit numbers	
• Add with compensation	
• Estimate the sum	
• Exercise	
<b>3. Subtraction</b> .....	21
• Properties of subtraction	
• Subtraction of 4 and 5 digit numbers	
• Subtract with compensation	
• Estimate the difference	
• Mixed bag	
• Exercise	
<b>4. Multiplication</b> .....	29
• Multiplication upto 3 digit numbers	
• Properties of Multiplication	
• Multiplication by 10 and 100	
• Exercise	
<b>5. Division</b> .....	35
• Quotient, Divider, Dividend	
• Properties of Division	
• Division by 10 and 100	
• Mixed bag	
• Exercise	
<b>6. Factors and multiples</b> .....	43
• Factors	
• Multiples	
• Odd and even numbers; Prime and Composite numbers	
• Exercise	
Practice Exercise 1 .....	47

<b>7. Fractions</b> .....	<b>49</b>
• Numerator and denominator	
• Equivalent Fractions and Simplify Fractions	
• Types of Fractions   • Addition and Subtraction of Like Fractions	
• Addition and Subtraction of Unlike Fractions	
• Fraction of a number   • Exercise	
<b>8. Geometry</b> .....	<b>58</b>
• Lines and Figures      • Circle and its parts	
• Symmetry and mirror image   • 3-D shapes	
• Exercise	
<b>9. Measurements</b> .....	<b>66</b>
• Metric System   • Perimeter and Area	
• Exercise	
Practice Exercise 2 .....	<b>72</b>
<b>10. Time</b> .....	<b>76</b>
• Analogue and Digital Time   • Time Duration	
• Number of Days   • Exercise	
<b>11. Money</b> .....	<b>80</b>
• Notes and Coins   • Operations on Money	
• Exercise	
<b>12. Patterns</b> .....	<b>86</b>
• Patterns with numbers and letters	
• Coding   • Patterns with addition and multiplication	
• Tiles and tessellation   • Exercise	
<b>13. Data Handling</b> .....	<b>94</b>
• Pictograph   • Bar Graph   • Exercise	
<b>14. Logical Reasoning</b> .....	<b>103</b>
Practice Exercise 3 .....	<b>108</b>
Model Question Paper I For Olympiad and NTSE.....	<b>112</b>
Model Question Paper II For Olympiad and NTSE .....	<b>118</b>



# 1. Number System

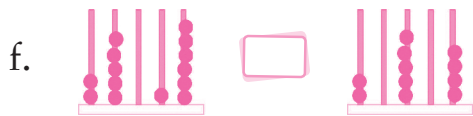
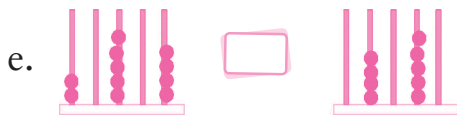
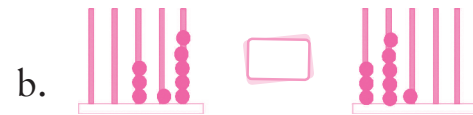
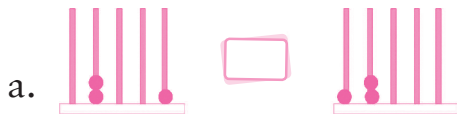


## Numerals on Abacus and Number Name

### EXERCISE - 1.1



1. Write the number shown on the abacus. Compare by using  $<$ ,  $>$ , or  $=$  in the box.



2. Reeta is doing population count of three different countries. Country A has 12346 population, Country B has 32001 population and Country C has 13201 population. Draw corresponding beads of these numbers on the given abacus in ascending order. Write respective number below each abacus.



3. Write number name for the given numbers. First one has been done for you.

a. 20000

**Twenty thousand**

b. 18990

c. 6750

d. 8090

e. 19807



- f. 43008 \_\_\_\_\_
- g. 89053 \_\_\_\_\_
- h. 7990 \_\_\_\_\_





4. Write numerals for the given number names. First one has been done for you.

- a. Sixty-six thousand **66000** \_\_\_\_\_
- b. Twenty thousand nineteen \_\_\_\_\_
- c. Seventy-six thousand thirty \_\_\_\_\_
- d. Five thousand nineteen \_\_\_\_\_
- e. Eighty thousand nine hundred \_\_\_\_\_
- f. Sixty thousand six \_\_\_\_\_
- g. Fifty five thousand fifty \_\_\_\_\_

## Place Value and Expanded Form



### EXERCISE - 1.2

1. Fill in the blanks.

- a. The place value of 2 in 7802 is \_\_\_\_\_.
- b. The face value of 7 in 8976 is \_\_\_\_\_.
-  c. The difference in the place value and face value of 8 in 67108 is \_\_\_\_\_.
- d. The expanded form of 5678 is \_\_\_\_\_.
- e.  $18000 + 700 + 8 =$  \_\_\_\_\_.
-  f. The difference in the place value and face value of 3 in 63901 is \_\_\_\_\_.
- g. There are \_\_\_\_\_ hundreds in 3000.
-  h. The place-value of 0 is \_\_\_\_\_.
- i. In 78904, 8 is at \_\_\_\_\_ place.
- j. There are \_\_\_\_\_ hundreds in 8000.
- k.  $5000 + 8000 +$  \_\_\_\_\_  $+ 1 = 58071$
-  l. \_\_\_\_\_ has the least place value in the number 56098.



2. Fill in the blanks with True or False:


- a. 6000 is greater than 60 hundreds. \_\_\_\_\_
- b. The expanded form of 5673 is  $5000 + 600 + 700 + 3$ . \_\_\_\_\_
- c. The face value of 6 in 7806 is 6. \_\_\_\_\_
- d. The place value of 6 in 7806 is 6. \_\_\_\_\_
- e. There are 3 hundreds in 6000. \_\_\_\_\_
-  f. 7899 is smaller than 70 hundreds + 9 hundreds.  
\_\_\_\_\_
-  g. The place value of 7 in 7899 is same as the place value of 7 in 17850. \_\_\_\_\_



## Order of Numbers

### EXERCISE - 1.3

Answer the following questions:

1. Write the number that comes before 20000. \_\_\_\_\_
2. Write the given numbers in descending order.  
49867, 56803, 1289, 12890  
\_\_\_\_\_
3. Write the predecessor of 29999. \_\_\_\_\_
4. Write the successor of 56799. \_\_\_\_\_
5. Shop A sold 12345 stationery products and shop B sold 12354 stationery products.  
Which shop sold more products? \_\_\_\_\_
-  6. My aunt's place is 2310 km far from my place and my uncle's place is 2309 km far from my place. Whose place is nearer to my place? \_\_\_\_\_
7. Which number comes between 67989 and 67991?  
\_\_\_\_\_