One

1	x	1	=	1
1	x	2	=	2
1	x	3	=	3
1	x	4	=	4
1	x	5	=	5
1	x	6	=	6
1	x	7	=	7
1	x	8	=	8
1	x	9	=	9
1	x	10	=	10

Two

2	x	1	=	2
2	x	2	=	4
2	x	3	=	6
2	x	4	=	8
2	x	5	=	10
2	x	6	=	12
2	x	7	=	14
2	x	8	=	16
2	x	9	=	18
2	x	10	=	20

Three

3	x	1	=	3
3	x	2	=	6
3	x	3	=	9
3	x	4	=	12
3	x	5	=	15
3	x	6	=	18
3	x	7	=	21
3	x	8	=	24
3	x	9	=	27
3	x	10	=	30

Four

4	x	1	=	4
4	x	2	=	8
4	x	3	=	12
4	x	4	=	16
4	x	5	=	20
4	x	6	=	24
4	x	7	=	28
4	x	8	=	32
4	x	9	=	36
4	x	10	=	40

Five

5	x	1	=	5
5	x	2	=	10
5	x	3	=	15
5	x	4	=	20
5	x	5	=	25
5	x	6	=	30
5	x	7	=	35
5	x	8	=	40
5	x	9	=	45
5	x	10	=	50

Six

6	x	1	=	6
6	x	2	=	12
6	x	3	=	18
6	x	4	=	24
6	x	5	=	30
6	x	6	=	36
6	x	7	=	42
6	x	8	=	48
6	x	9	=	54
6	x	10	=	60

Seven

7	x	1	=	7
7	x	2	=	14
7	x	3	=	21
7	x	4	=	28
7	x	5	=	35
7	x	6	=	42
7	x	7	=	49
7	x	8	=	56
7	x	9	=	63
7	x	10	=	70

Eight

8	x	1	=	8
8	x	2	=	16
8	x	3	=	24
8	x	4	=	32
8	x	5	=	40
8	x	6	=	48
8	x	7	=	56
8	x	8	=	64
8	x	9	=	72
8	x	10	=	80

Nine

9	x	1	=	9
9	x	2	=	18
9	x	3	=	27
9	x	4	=	36
9	x	5	=	45
9	x	6	=	54
9	x	7	=	63
9	x	8	=	72
9	x	9	=	81
9	x	10	=	90

Ten

10	x	1	=	10
10	x	2	=	20
10	x	3	=	30
10	x	4	=	40
10	x	5	=	50
10	x	6	=	60
10	x	7	=	70
10	x	8	=	80
10	x	9	=	90
10	x	10	=	100

Eleven

11	x	1	=	11
11	x	2	=	22
11	x	3	=	33
11	x	4	=	44
11	x	5	=	55
11	x	6	=	66
11	x	7	=	77
11	x	8	=	88
11	x	9	=	99
11	x	10	=	110

Twelve

12	x	1	=	12
12	x	2	=	24
12	x	3	=	36
12	x	4	=	48
12	x	5	=	60
12	x	6	=	72
12	x	7	=	84
12	x	8	=	96
12	x	9	=	108
12	x	10	=	120

Thirteen

13	x	1	=	13
13	x	2	=	26
13	x	3	=	39
13	x	4	=	52
13	x	5	=	65
13	x	6	=	78
13	x	7	=	91
13	x	8	=	104
13	x	9	=	117
13	x	10	=	130

Fourteen

14	x	1	=	14
14	x	2	=	28
14	x	3	=	42
14	x	4	=	56
14	x	5	=	70
14	x	6	=	84
14	x	7	=	98
14	x	8	=	112
14	x	9	=	126
14	x	10	=	140

Fifteen

15	x	1	=	15
15	x	2	=	30
15	x	3	=	45
15	x	4	=	60
15	x	5	=	75
15	x	6	=	90
15	x	7	=	105
15	x	8	=	120
15	x	9	=	135
15	x	10	=	150

Sixteen

16	x	1	=	16
16	x	2	=	32
16	x	3	=	48
16	x	4	=	64
16	x	5	=	80
16	x	6	=	96
16	x	7	=	112
16	x	8	=	128
16	x	9	=	144
16	x	10	=	160

Seventeen

17	x	1	=	17
17	x	2	=	34
17	x	3	=	51
17	x	4	=	68
17	x	5	=	85
17	x	6	=	102
17	x	7	=	119
17	x	8	=	136
17	x	9	=	153
17	x	10	=	170

Eighteen

18	x	1	=	18
18	x	2	=	36
18	x	3	=	54
18	x	4	=	72
18	x	5	=	90
18	x	6	=	108
18	x	7	=	126
18	x	8	=	144
18	x	9	=	162
18	x	10	=	180

Nineteen

19	x	1	=	19
19	x	2	=	38
19	x	3	=	57
19	x	4	=	76
19	x	5	=	95
19	x	6	=	114
19	x	7	=	133
19	x	8	=	152
19	x	9	=	171
19	x	10	=	190

Twenty

20	x	1	=	20
20	x	2	=	40
20	x	3	=	60
20	x	4	=	80
20	x	5	=	100
20	x	6	=	120
20	x	7	=	140
20	x	8	=	160
20	x	9	=	180
20	x	10	=	200

21

21 x	1	=	21
21 x	2	=	42
21 x	3	=	63
21 x	4	=	84
21 x	5	=	105
21 x	6	=	126
21 x	7	=	147
21 x	8	=	168
21 x	9	=	189
21 x	10	=	210

22

22 x	1	=	22
22 x	2	=	44
22 x	3	=	66
22 x	4	=	88
22 x	5	=	110
22 x	6	=	132
22 x	7	=	154
22 x	8	=	176
22 x	9	=	198
22 x	10	=	220

23

23 x	1	=	23
23 x	2	=	46
23 x	3	=	69
23 x	4	=	92
23 x	5	=	115
23 x	6	=	138
23 x	7	=	161
23 x	8	=	184
23 x	9	=	207
23 x	10	=	230

24

24 x	1	=	24
24 x	2	=	48
24 x	3	=	72
24 x	4	=	96
24 x	5	=	120
24 x	6	=	144
24 x	7	=	168
24 x	8	=	192
24 x	9	=	216
24 x	10	=	240

25

25 x	1	=	25
25 x	2	=	50
25 x	3	=	75
25 x	4	=	100
25 x	5	=	125
25 x	6	=	150
25 x	7	=	175
25 x	8	=	200
25 x	9	=	225
25 x	10	=	250

26

26 x	1	=	26
26 x	2	=	52
26 x	3	=	78
26 x	4	=	104
26 x	5	=	130
26 x	6	=	156
26 x	7	=	182
26 x	8	=	208
26 x	9	=	234
26 x	10	=	260

27

27 x	1	=	27
27 x	2	=	54
27 x	3	=	81
27 x	4	=	108
27 x	5	=	135
27 x	6	=	162
27 x	7	=	189
27 x	8	=	216
27 x	9	=	243
27 x	10	=	270

28

28 x	1	=	28
28 x	2	=	56
28 x	3	=	84
28 x	4	=	112
28 x	5	=	140
28 x	6	=	168
28 x	7	=	196
28 x	8	=	224
28 x	9	=	252
28 x	10	=	280

29

29 x	1	=	29
29 x	2	=	58
29 x	3	=	87
29 x	4	=	116
29 x	5	=	145
29 x	6	=	174
29 x	7	=	203
29 x	8	=	232
29 x	9	=	261
29 x	10	=	290

30

30 x	1	=	30
30 x	2	=	60
30 x	3	=	90
30 x	4	=	120
30 x	5	=	150
30 x	6	=	180
30 x	7	=	210
30 x	8	=	240
30 x	9	=	270
30 x	10	=	300

1

REVISION

1. **Write the following numbers in words.**

   a. 3546 _____

   b. 1789 _____

   c. 6445 _____

   d. 6234 _____

   e. 9137 _____

2. **Write the following numbers in figures.**

   a. Eight thousand two hundred sixty _____

   b. Seven thousand one hundred twelve _____

   c. Nine thousand nine hundred two _____

   d. Five thousand five hundred _____

   e. Five thousand two hundred fifty-nine _____

3. **Arrange the following numbers in ascending order.**

   a. 5472, 7241, 2741, 7412, 7421 _____

   b. 4590, 5490, 5940, 5049, 9099 _____

   c. 1263, 2417, 8264, 3197, 3369 _____

   d. 7219, 4214, 7679, 1263, 8407 _____

   e. 5942, 5492, 7321, 4292, 5904 _____

4. **Arrange the following numbers in descending order.**

   a. 4908, 8904, 9804, 8409, 9840 _____

   b. 4468, 6105, 2118, 3217, 7409 _____

   c. 4217, 4478, 5748, 4675, 5200 _____

   d. 3905, 8176, 6956, 8104, 6099 _____

   e. 7956, 5967, 9675, 9576, 7659 _____

5. **Observe the pattern and complete the following series.**

   a. 3352, 3354, 3356, 3358, 3360, _____, _____, _____, _____

   b. 4468, 4473, 4478, 4483, 4488, _____, _____, _____, _____

   c. 6105, 6115, 6125, 6135, 6145, _____, _____, _____, _____

   d. 2118, 2218, 2318, 2418, 2518, _____, _____, _____, _____

   e. 3568, 4568, 5568, 6568, 7568, _____, _____, _____, _____

3

6. Write the following numbers in expanded form.

a. 4578 = _____ + _____ + _____ + _____

b. 8447 = _____ + _____ + _____ + _____

c. 5973 = _____ + _____ + _____ + _____

d. 8765 = _____ + _____ + _____ + _____

e. 9009 = _____ + _____ + _____ + _____

7. Write the following numbers in short form.

a. 8000 + 300 + 60 + 5 = _____

b. 9000 + 800 + 10 + 4 = _____

c. 7000 + 800 + 70 + 3 = _____

d. 5000 + 100 + 50 + 2 = _____

e. 6000 + 100 + 70 + 1 = _____

f. 8000 + 500 + 00 + 7 = _____

8. Put > or < between the following numbers.

a. 5263 ☐ 5632

b. 7284 ☐ 7842

c. 5402 ☐ 5420

d. 4853 ☐ 3548

e. 6137 ☐ 3258

f. 8453 ☐ 9650

9. Write the place values of the coloured digits in the following numbers.

a. 3896 _____

b. 7291 _____

c. 3675 _____

d. 8246 _____

e. 2885 _____

f. 3159 _____

10. Write the Roman numerals for the following.

a. 28 _____

b. 36 _____

c. 19 _____

d. 24 _____

e. 39 _____

f. 15 _____

g. 45 _____

h. 16 _____

11. Add the following.

a.
Th	H	T	O
5	7	5	4
+ 4	3	2	5

b.
Th	H	T	O
4	8	2	5
+ 1	7	6	8

c.
Th	H	T	O
5	9	3	7
+ 2	8	6	5

d.
Th	H	T	O
3	3	2	5
+ 4	9	7	6

e.
Th	H	T	O
6	9	7	7
+ 2	3	8	9

f.
Th	H	T	O
2	5	4	7
+ 3	6	8	7

g.
Th	H	T	O
3	9	7	6
+ 3	8	8	7

h.
Th	H	T	O
5	6	2	3
+ 3	6	8	8

12. Write in columns and add.

a. 2128 and 2689

b. 3094, 7141 and 548

c. 292, 3011, 4769 and 1006

d. 6714 and 1914

e. 112, 3141 and 414

f. 460, 1009, 5504 and 1010

g. 6105 and 713

h. 1231, 405 and 6091

i. 500, 2009, 6504 and 2010

4

13. Subtract the following.

a.

Th	H	T	O
5	7	2	9
− 2	5	2	7

b.

Th	H	T	O
6	4	5	0
− 2	2	9	8

c.

Th	H	T	O
6	4	3	2
− 3	5	6	7

d.

Th	H	T	O
7	3	3	1
− 5	8	3	2

e.

Th	H	T	O
4	3	0	0
− 2	9	9	6

f.

Th	H	T	O
9	3	2	5
− 2	6	9	8

g.

Th	H	T	O
4	2	2	0
− 2	9	8	9

h.

Th	H	T	O
9	1	2	0
− 7	5	6	3

14. Write in columns and subtract.

a. 3414 from 5740
b. 4567 from 8758
c. 3674 from 7421
d. 4105 from 6728
e. 6140 from 8106
f. 7418 from 9184

15. Multiply the following.

a.

H	T	O
	2	3
×		6

b.

H	T	O
	4	3
×		8

c.

H	T	O
	7	5
×		9

d.

H	T	O
	9	6
×		6

e.

Th	H	T	O
	6	1	3
×			3

f.

Th	H	T	O
	2	0	4
×			7

g.

Th	H	T	O
	2	3	4
×			8

h.

Th	H	T	O
	5	9	1
×			5

16. Divide and write the quotient and remainder.

a. 6) 49   Q=☐   R=☐

b. 5) 83   Q=☐   R=☐

c. 7) 68   Q=☐   R=☐

d. 3) 99   Q=☐   R=☐

e. 2) 804   Q=☐   R=☐

f. 3) 861   Q=☐   R=☐

g. 7) 889   Q=☐   R=☐

h. 3) 147   Q=☐   R=☐

5

17. Tick ✓ the figures divided into two equal parts.
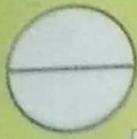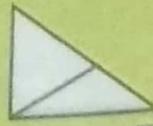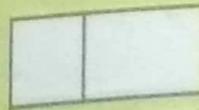
a. b. c. d.

18. Write the numerator and denominator in each of the following fractions.

Fraction	Numerator	Denominator	Fraction	Numerator	Denominator
a. $\dfrac{2}{7}$			b. $\dfrac{4}{7}$		
c. $\dfrac{4}{9}$			d. $\dfrac{6}{11}$		
e. $\dfrac{3}{8}$			f. $\dfrac{3}{13}$		

19. Write fractions for the following.

a. three-eighth _____

b. nine-tenth _____

c. two-sixteenth _____

d. six-twelfth _____

e. eight-ninth _____

f. six-fifteenth _____

20. Find the following.

a. $\dfrac{1}{2}$ of 12 = _____

b. $\dfrac{1}{3}$ of 18 = _____

c. $\dfrac{1}{7}$ of 21 = _____

d. $\dfrac{1}{8}$ of 48 = _____

e. $\dfrac{1}{7}$ of 56 = _____

f. $\dfrac{1}{10}$ of 90 = _____

21. Convert the units of the following measurements.

a. 37 m = _____ cm

b. 9 m 5 cm = _____ cm

c. 418 cm = _____ m _____ cm

d. 7 km = _____ m

e. 5 km 300 m = _____ m

f. 4 kg = _____ g

g. 8 kg 80 g = _____ g

h. 3454 g = _____ kg _____ g

i. 36 l = _____ ml

j. 7654 ml = _____ l _____ ml

22. Fill in the blanks.

a. There are _____ days in February.

b. Eighth month of the year is _____.

c. There are _____ days in a week.

d. There are _____ days in a year.

e. There are _____ minutes in one hour.

6

23. Draw hands to show the given time in each clock.

a.
5:25

b.
10:50

c.
3:45

d.
6:55
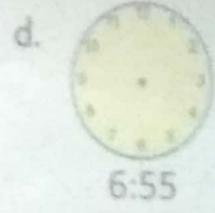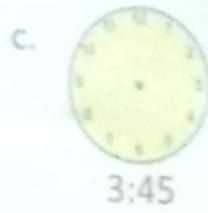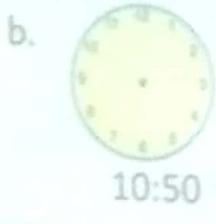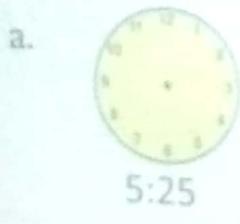
24. Write ⊤ for true and ⨍ for false statements.

a. A cube has 12 vertices. ☐
b. A sphere has no edges. ☐
c. A cone has one edge. ☐
d. A cylinder has three faces. ☐

25. Draw the next four figures in each of the following.
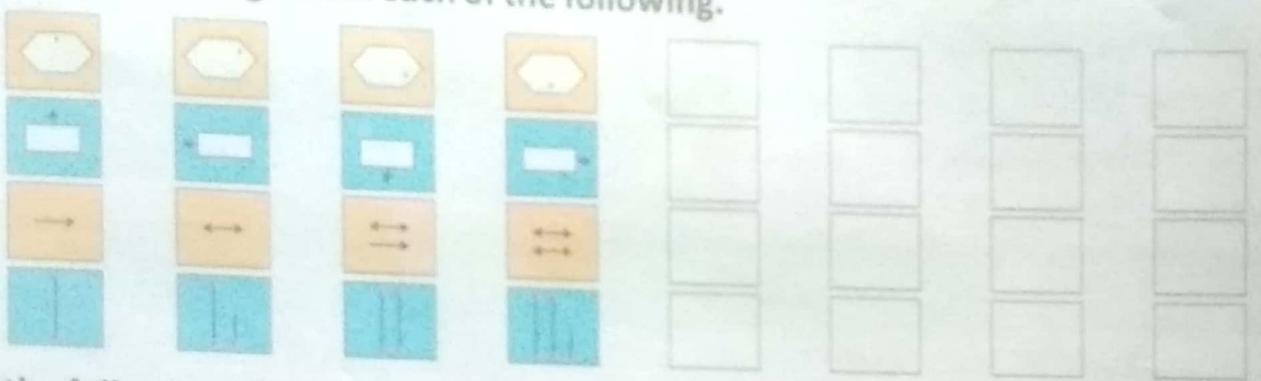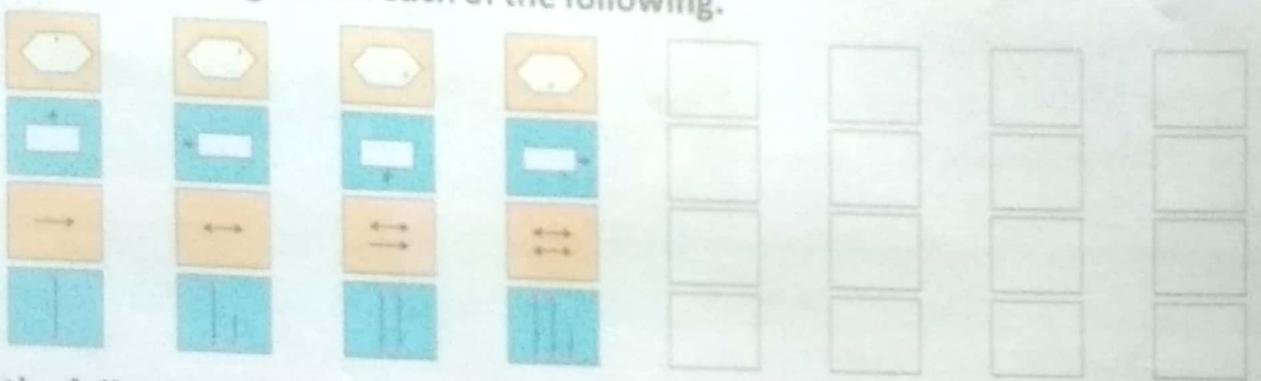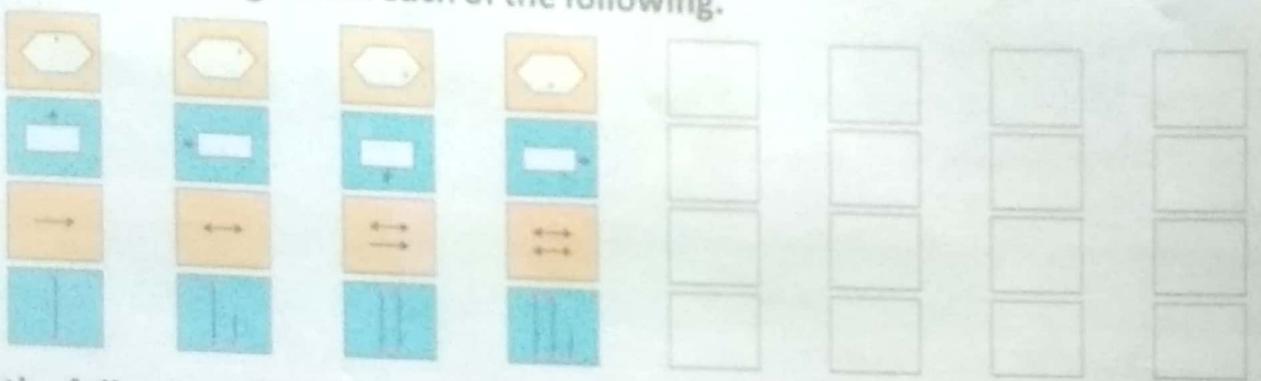
a.
b.
c.
d.
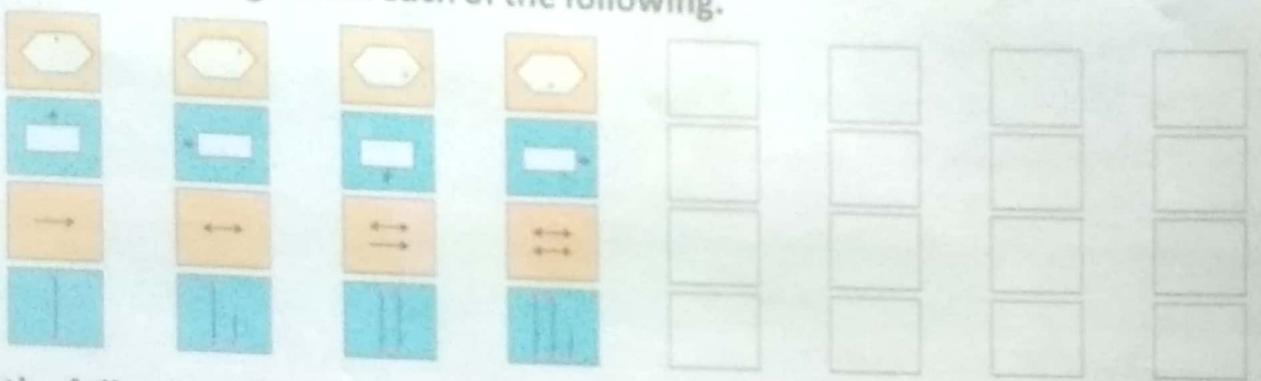
26. Read the following pictograph and answer the questions that follow.

Apple	
Guava	
Banana	
Orange	
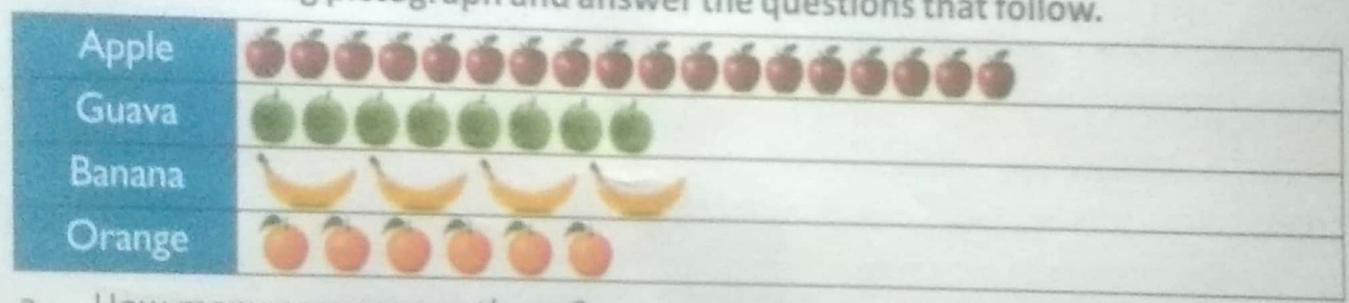
a. How many oranges are there ? _____
b. Which fruit is maximum in number ? _____
c. What is the total number of fruits ? _____

27. A wire was 78 m 17 cm long. Out of it, 36 m 50 cm was used for fencing. How much wire is left now ?

28. A town has 5845 males and 3274 females. Find the total population of the town.

29. Find the sum of the greatest 2-digit number, greatest 3-digit number and smallest 4-digit number.

30. A bottle of fruit juice contains 250 ml of juice. How much juice is there in 6 such bottles.

31. Amit weighs 42.7 kg. His elder brother weighs 13.8 kg more. What is his brother's weight ?

32. I have kept ₹ 1644 equally in 4 packets. How much amount is there in each packet ?

33. A rod is 345 m 66 cm long. It is cut into 3 equal pieces. What is the length of each piece of rod ?

34. My father leaves for office at 8:30 a.m. and reaches home at 6:30 p.m. How much time is he away from home ?

7

Six-Digit Numbers

99999 is the greatest 5-digit number. On adding 1 to this number, we get the smallest 6-digit number.

99999 + 1 = 100000 is the smallest 6-digit number. It is read as one lakh.

A 6-digit number moves into a new column called the lakhs place.

Let's write some numbers beyond 100000 with their number names.

Number	L	TTh	Th	H	T	O	Number Name
100001	1	0	0	0	0	1	One lakh one
200572	2	0	0	5	7	2	Two lakh five hundred seventy-two
304958	3	0	4	9	5	8	Three lakh four thousand nine hundred fifty-eight
736745	7	3	6	7	4	5	Seven lakh thirty-six thousand seven hundred forty-five
985129	9	8	5	1	2	9	Nine lakh eighty-five thousand one hundred twenty-nine

Seven-Digit Numbers

Repeating the same process, we can get 7-digit, 8-digit and even larger numbers.

999999 is the greatest 6-digit number.

When we add 1 to it, we get the smallest 7-digit number.

999999 + 1 = 1000000 is the smallest 7-digit number.

A 7-digit number moves into the next column of lakhs called ten lakhs.

9999999 is the greatest 7-digit number.

Exercise 2.1

1. Fill in the boxes.

   a.   30672   =   ☐ TTh ☐ Th ☐ H ☐ T ☐ O

   b.   58549   =   ☐ TTh ☐ Th ☐ H ☐ T ☐ O

   c.   467205 =   ☐ L ☐ TTh ☐ Th ☐ H ☐ T ☐ O

   d.   986742 =   ☐ L ☐ TTh ☐ Th ☐ H ☐ T ☐ O

   e.   3724685 =   ☐ TL ☐ L ☐ TTh ☐ Th ☐ H ☐ T ☐ O

   f.   9236853 =   ☐ TL ☐ L ☐ TTh ☐ Th ☐ H ☐ T ☐ O

9

2. Write the following numbers in words.

a. 46855

b. 72814

c. 35910

d. 107415

e. 432516

f. 765437

g. 3142766

h. 6492583

3. Write the following numbers in figures.

a. Ten thousand four hundred nine

b. Eighty thousand four hundred twenty-two

c. Twenty-three thousand eight hundred sixty-six

d. Sixty-one thousand two hundred ninety-nine

e. Four lakh eighty-three thousand six hundred thirty-eight

f. Seven lakh ninety-seven thousand five hundred twenty-one

g. Twenty-three lakh forty-seven thousand three hundred eight

h. Sixty-two lakh twenty-seven thousand nine hundred seventy

4. Write the smallest 5-digit number.

5. Write the greatest 5-digit number.

6. Write the smallest 6-digit number.

7. Write the greatest 6-digit number.

8. Write the smallest 7-digit number.

9. Write the greatest 7-digit number.

10. Write the smallest 5-digit number using the digits 0 to 4. No digit should be repeated.

Representing Numbers on Abacus

We can represent 5, 6, and 7-digit numbers on abacus as below.

Example 1 : Show 84834 on abacus.

TL	L	TTh	Th	H	T	O
		8	4	8	3	4
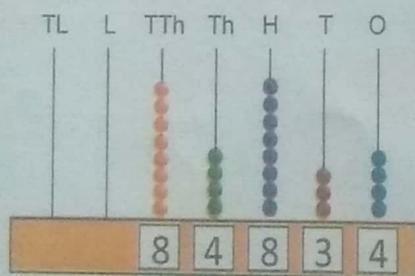
Example 2 : Show 451722 on abacus.

TL	L	TTh	Th	H	T	O
	4	5	1	7	2	2
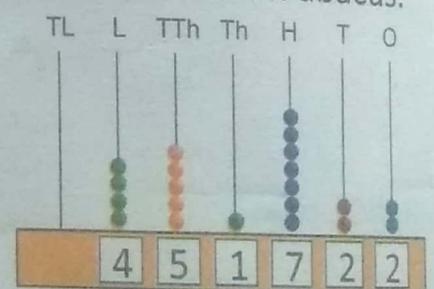
Example 3 : 3692385 on abacus.

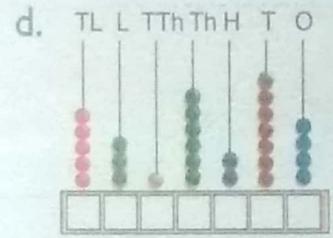| TL	L	TTh	Th	H	T	O
3	6	9	2	3	8	5
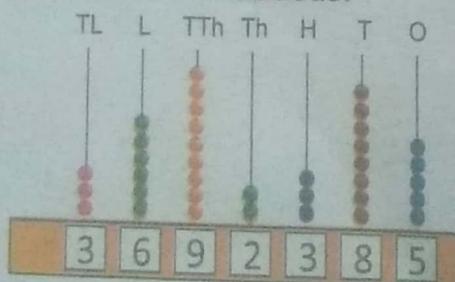
Example 4 : 3745196 on abacus.

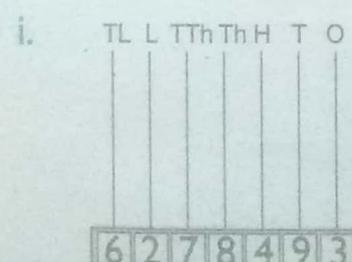| TL	L	TTh	Th	H	T	O
3	7	4	5	1	9	6
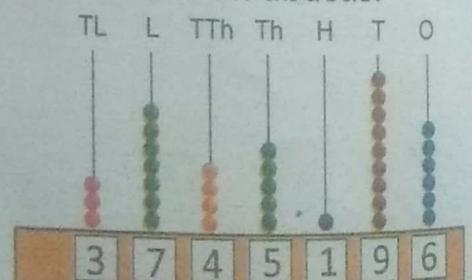
Write the numbers shown on abacus.

a. TL L TTh Th H T O   b. TL L TTh Th H T O   c. TL L TTh Th H T O   d. TL L TTh Th H T O

e. TL L TTh Th H T O   f. TL L TTh Th H T O   g. TL L TTh Th H T O   h. TL L TTh Th H T O

i. TL L TTh Th H T O   j. TL L TTh Th H T O   k. TL L TTh Th H T O   l. TL L TTh Th H T O
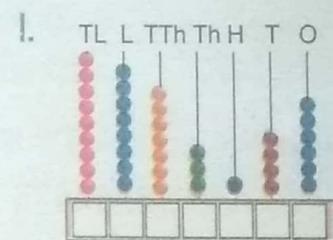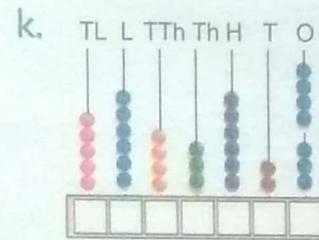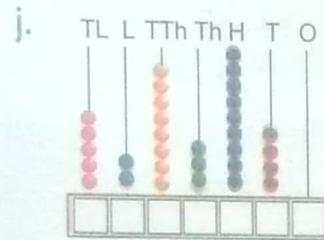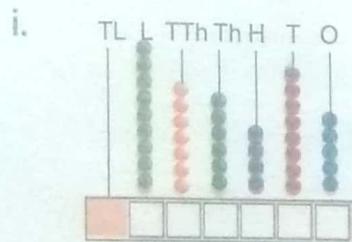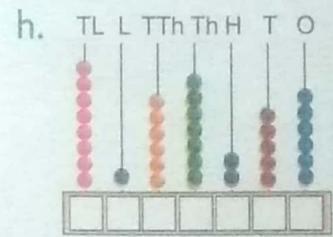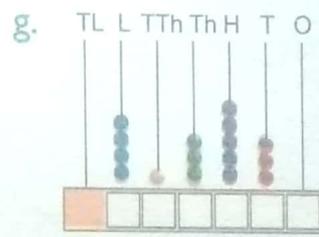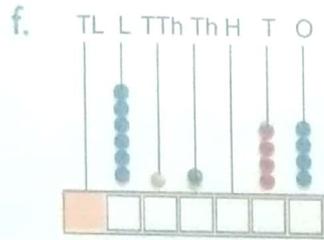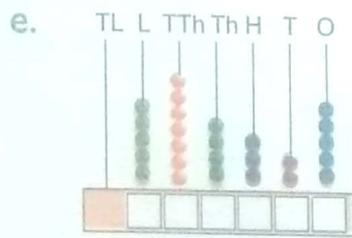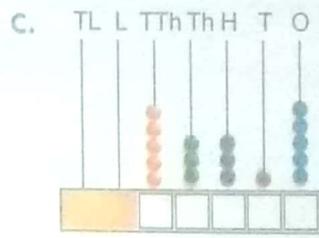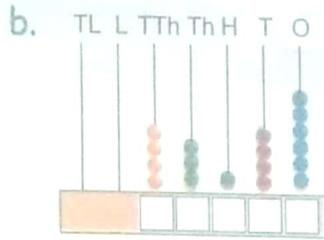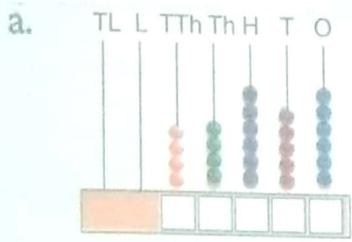
Show the following numbers on abacus.

a. TL L TTh Th H T O   b. TL L TTh Th H T O   c. TL L TTh Th H T O   d. TL L TTh Th H T O

a. 4 6 2 8 1   b. 4 8 3 5 9   c. 6 3 3 5 0   d. 7 5 3 3 6 3

e. TL L TTh Th H T O   f. TL L TTh Th H T O   g. TL L TTh Th H T O   h. TL L TTh Th H T O

e. 6 5 5 6 6 5   f. 4 1 1 1 1 0 0   g. 5 2 0 9 4 7   h. 2 9 1 1 3 2 7

i. TL L TTh Th H T O   j. TL L TTh Th H T O   k. TL L TTh Th H T O   l. TL L TTh Th H T O

i. 6 2 7 8 4 9 3   j. 8 7 1 1 4 5 3 9   k. 2 5 3 7 6 9 8   l. 3 4 1 1 5 2 7 6
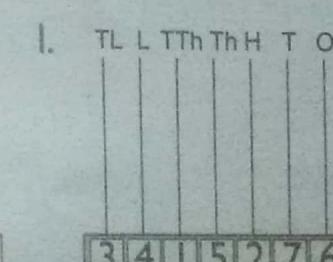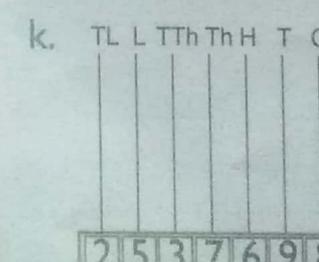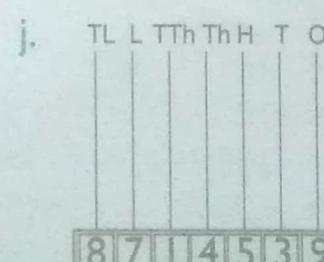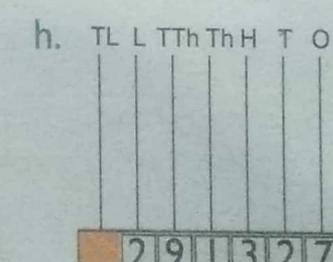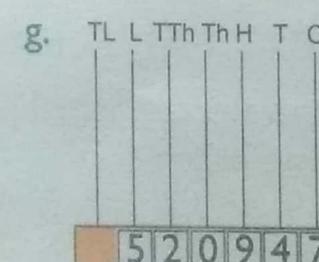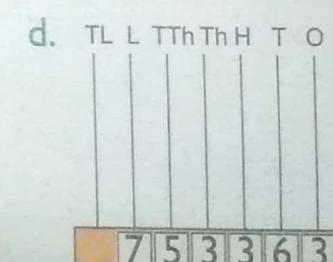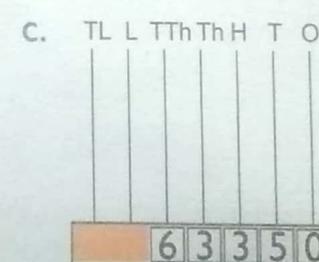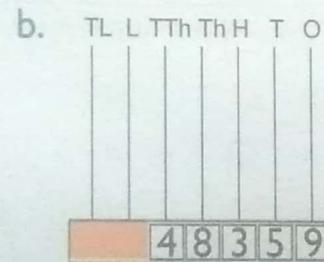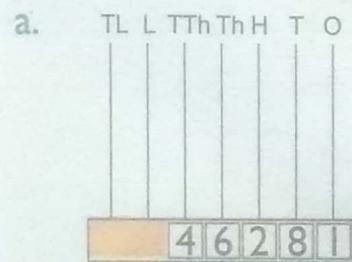
1. Find the place value of coloured digit in each number.

   a. 97306   b. 85183   c. 64357   d. 641352
   e. 923456   f. 148569   g. 8453067   h. 3189725

2. Write the numbers in which the place value of 9 is 9000.

   a. 49263   b. 36928   c. 14392   d. 352954
   e. 894307   f. 916843   g. 5529703   h. 4491627

3. Find the sum of the place values of 5 in each of the following numbers.

   a. 95152   b. 98525   c. 53652   d. 675285
   e. 832515   f. 745425   g. 1565025   h. 4951755

4. Find the difference of place values of 6 in each of the following numbers.

   a. 86960   b. 68786   c. 64561   d. 906641
   e. 663042   f. 632746   g. 8463762   h. 9617683

5. Write the place, place value and face value of the coloured digit in each number.

   a. 71055   b. 64231   c. 72851   d. 913540
   e. 673271   f. 980654   g. 4087609   h. 2470961

Expanded Form and Standard Form

Expanded Form

Writing a number as the sum of the place values of all its digits is known as the expanded form of that number.

	Numbers	TL 1000000	L 100000	TTh 10000	Th 1000	H 100	T 10	O 1
a.	85141			8	5	1	4	1
b.	693804		6	9	3	8	0	4
c.	7142391	7	1	4	2	3	9	1

Look at the numbers in the place value chart given below.

We write the numbers in expanded form as below :

a. 85141   = 8 Ten Th + 5 Thousand +1 Hundreds +4 Tens + 1 Ones

          = 8 × 10000 + 5 × 1000 + 1 × 100 + 4 × 10 + 1 × 1

          = 80000 + 5000 + 100 + 40 +1

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b. While reading a number, all the digits in the same period are read together and t name of the period is read along with them except the 'Ones period'.

Exercise 2.4

1. **Write the following numbers in expanded form.**

   a. 72854   b. 63915   c. 82375   d. 403052
   e. 313789   f. 384832   g. 7989596   h. 3657492

2. **Write the following numbers in standard form.**

   a. 40000   + 3000   + 700   + 00   + 5
   b. 80000   + 0000   + 800   + 70   + 6
   c. 100000   + 40000   + 3000   + 900   + 60   + 2
   d. 800000   + 50000   + 1000   + 600   + 80   + 1
   e. 3000000   + 600000   + 70000   + 5000   + 600   + 40   + 4
   f. 9000000   + 400000   + 60000   + 7000   + 700   + 20   + 5

3. **Write the period and place of coloured digit in each of the following numbers.**

   a. 70987   b. 78720   c. 41236   d. 641246
   e. 712833   f. 444421   g. 7451348   h. 9276345

4. **Separate the periods by commas and rewrite the numbers.**

   a. 31049   b. 12009   c. 89887   d. 581006
   e. 766571   f. 253808   g. 4999346   h. 9562172

5. Write names of places in ones period.

6. Write names of places in thousands period.

7. Write names of places in lakhs period.

Comparison of Numbers

You have already learnt to compare 3 and 4-digit numbers. In the same way, we compar 5-digit, 6-digit, and 7-digit numbers.

Example 1 : Compare 8748 and 54685.

54685 is greater than 8748 because the number having more digits is greater.

∴ 54685 > 8748 or 8748 < 54685

Example 2 : Compare 43745 and 34525.

In 43745, there are 4 ten thousands, whereas in **34525**, there **are 3 ten thousands.**

   4 > 3

∴ 43745 > 34525 or 34525 < 43745

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Example 3 : Compare 528745 and 568745.

In 528745, there are 2 ten thousands, whereas in 568745, there are 6 ten thousands.

$\quad\quad$ 6 > 2

∴ 568745 > 528745 or 528745 < 568745

Example 4 : Compare 323845 and 323846.

In 323845, there are 5 ones, whereas in 323846, there are 6 ones.

$\quad\quad$ 6 > 5

∴ 323846 > 323845 or 323845 < 323846

Ascending and Descending Order

When you have learnt to compare numbers, it is easy to arrange them in ascending order (from smallest to greatest) and in descending order (from greatest to smallest).

Example : Arrange the following numbers in ascending and descending orders :

$\quad\quad$ 234712, 213478, 424312, 247312

Applying the rules of comparison,

The ascending order of the numbers is 213478, 234712, 247312, 424312.

The descending order of the numbers is 424312, 247312, 234712, 213478.

Exercise 2.5

1. Put the symbol < , > or = in the box.

   a. 84563 ☐ 74648
   b. 36508 ☐ 36508
   c. 143972 ☐ 133972
   d. 834162 ☐ 875639
   e. 3137458 ☐ 3139260
   f. 394452 ☐ 6241863

2. Encircle the greatest number in each set.

   a. 41309, 14903, 19403, 20403
   b. 31536, 13565, 35829, 34928
   c. 724186, 768124, 742168, 421687
   d. 871750, 942052, 941831, 943181
   e. 3215267, 8213769, 2562083, 3652083
   f. 7624678, 6125443, 3542728, 9452782

3. Encircle the smallest number in each set.

   a. 31036, 60312, 12638, 42638
   b. 12382, 12814, 14812, 14802
   c. 814154, 298242, 385569, 824154
   d. 700703, 700981, 980077, 880077
   e. 1841555, 1541888, 8415666, 2542889
   f. 2130802, 8031882, 1831832, 2831832

4. Arrange the following numbers in ascending order.

   a. 41309, 14903, 19703, 22804
   b. 65606, 65061, 65660, 65666
   c. 216156, 700056, 963741, 422349
   d. 400007, 596732, 293680, 750605
   e. 6427851, 2343632, 6425773, 5893215
   f. 8090704, 9543685, 6594826, 7952648

5. Arrange the following numbers in descending order.

   a. 62516, 72634, 19403, 20549
   b. 27632, 13836, 93268, 65781
   c. 313742, 963745, 214633, 396452
   d. 274327, 352069, 224501, 209586
   e. 4523171, 2354962, 6723253, 4725332
   f. 3050314, 8729125, 2345676, 5174926

Formation of Smallest and Greatest Numbers

Smallest Number

To write the smallest number using the given digits, we write the digits in ascending order. If there is zero amongst the digits, it take the second place after the smallest digit.

Example 1 : Write the smallest 5-digit number using the digits 7,2,3,5,1.

Ascending order of digits is 1, 2, 3, 5, 7.

So, the smallest 5-digit number formed by these digits is 12357.

Example 2 : Write the smallest 6-digit number using the digits 4,2,6,3,1,0.

Ascending order of the digits is 0, 1, 2, 3, 4, 6.

As 0 is to be placed on second place, so the order is 1, 0, 2, 3, 4, 6.

So, the smallest 6-digit number formed by these digits is 102346.

Greatest Number

If the greatest number is to be formed by the given digits, we write the digits in descending order. Thus, we will get the greatest number.

Example   : Write the greatest number using the digits 5,3,9,7,2.

Descending order of the digits is 9, 7, 5, 3, 2.

So, the greatest number formed by these digits is 97532.

Exercise 2.6

1. Write the smallest and greatest 5-digit numbers using the following digits.

   a. 2, 1, 4, 5, 6   b. 6, 0, 5, 1, 7   c. 2, 5, 7, 9, 7   d. 7, 2, 1, 6, 5
   e. 4, 3, 2, 5, 6   f. 3, 5, 7, 2, 1   g. 6, 7, 9, 5, 7   h. 4, 1, 0, 3, 9

2. Write the smallest and greatest 6-digit numbers using the following digits.

   a. 5, 4, 3, 6, 7, 2   b. 4, 6, 8, 3, 2, 7   c. 7, 8, 0, 6, 8, 5   d. 9, 4, 3, 8, 7, 2
   e. 3, 2, 5, 6, 4, 9   f. 7, 1, 6, 2, 8, 3   g. 3, 6, 8, 0, 4, 1   h. 6, 3, 2, 5, 1, 0

3. Write the smallest and greatest 7-digit numbers using the following digits.

   a. 4, 5, 7, 3, 6, 2, 9 b. 1, 9, 5, 6, 2, 8, 3 c. 3, 8, 7, 5, 2, 4, 5 d. 3, 5, 9, 0, 5, 8, 2
   e. 1, 0, 4, 2, 7, 6, 8 f. 3, 6, 1, 4, 7, 2, 5 g. 7, 4, 9, 2, 5, 3, 6 h. 6, 1, 7, 4, 9, 5, 8

4. Write the greatest 5-digit number using all the digits from 1 to 5 and no digit is repeated.

5. Change the position of the digits to get the smallest 5-digit number.
   a. 24835   b. 59208   c. 95806   d. 60585
   e. 73205   f. 54132   g. 42615   h. 98476

6. Change the position of the digits to get the greatest 6-digit number.
   a. 698242   b. 205695   c. 680185   d. 749518
   e. 749810   f. 537654   g. 369487   h. 124229

7. Write the smallest 6-digit number using all the digits from 0 to 5 and no digit is repeated.

8. Write the greatest 7-digit number using all the digits from 1 to 7 and no digit is repeated.

Rounding off Numbers

Rounding off to the Nearest 10

Rule 1 : For rounding off a number to the nearest 10, we look at the digit in ones place. If it is less than 5, we replace it by 0 while the other digits will remain same.

Rule 2 : If the digit at ones place is 5 or more, we replace it by 0 and increase the digit in the tens place by 1.

Example : Round off the following numbers to the nearest 10.

   a. 25678   b. 54274

a. In 25678, the digit at ones place is 8 which is more than 5. So, we round off 25678 to 25680.

b. In 54274, the digit at ones place is 4 which is less than 5. So, we round off 54274 to 54270.

Rounding off to the Nearest 100

Rule 1 : For rounding off a number to the nearest 100, we look at the digit in the tens place. If it is less than 5, we replace the digits at tens and ones places by zeros and do not change the other digits.

Rule 2 : If the digit at the tens place is 5 or more, we replace the digits at the ones and tens places by zeros and increase the digit at the hundreds place by 1.

Example : Round off the following numbers to the nearest 100.

   a. 32750   b. 441327

a. In 32750, the digit at the tens place is 5. So, it is rounded off to 32800.

b. In 441327, the digit at the tens place is 2, which is smaller than 5. So, it is rounded off to 441300.

Rounding off to the Nearest 1000

Rule 1 : For rounding off a number to the nearest 1000, we look at the digit in the hundreds place. If it is less than 5, we replace the digits at hundreds, tens and ones places by zeros and do not change the other digits.

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Rule 2 : If the digit at hundreds place is 5 or more, we replace the digits at the hundre, tens and ones places by zeros and increase the digit at the thousands place by

Example : Round off the following numbers to the nearest 1000.

a. 64829   b. 845237

a.   In 64829, the digit at the hundreds place is 8, which is more than 5. So, it is round off to 65000.

b.   In 845237, the digit at the hundreds place is 2, which is less than 5. So, it is round off to 845000.

Exercise 2.7

1. **Round off the following numbers to the nearest 10.**

   a. 28544   b. 86572   c. 34862   d. 152836
   e. 158936   f. 14359   g. 457289   h. 372511

2. **Round off the following numbers to the nearest 100.**

   a. 78964   b. 86259   c. 15274   d. 12058
   e. 701402   f. 587807   g. 421879   h. 483734

3. **Round off the following numbers to the nearest 1000.**

   a. 60535   b. 130742   c. 678937   d. 13439
   e. 588263   f. 475462   g. 635438   h. 778888

4. **Round off 42396 to the :**

   a. nearest 10   b. nearest 100   c. nearest 1000

5. **Round off 540502 to the :**

   a. nearest 10   b. nearest 100   c. nearest 1000

Boggle Your Brain

1. When we subtract one from any number greater than 0, result is a numb _____ it.

2. The number is a 5-digit number. The digit at the ten thousands and thousan place is 1 less than the greatest 1-digit number. The hundreds place is doub of tens place, tens place is double of ones place and digit at ones place is Write the number.

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1. Write Roman numerals for each of the following.

a. 8   b. 16   c. 25   d. 46   e. 125

f. 227   g. 246   h. 333   i. 336   j. 366

2. Write Hindu-Arabic numerals for each of the following.

a. LXII   b. CXXVIII   c. CCXLVI   d. CCCLXIX   e. CLXXXVIII

f. CCLVII   g. XLIX   h. LXXIII   i. CCLXVIII   j. XXXIX

3. Put the symbol > or < in the box.

a. CCLV   ☐ CCXLVI   b. CCXXVII   ☐ CLXIX

c. CCLXVII ☐ CCXLVII   d. CCCXXXIII   ☐ CCCLVIII

4. Write the predecessors of the following Roman numerals.

a. XXIV   b. LXX   c. XC   d. IX   e. XXXV

f. LXXVI   g. CXXVIII   h. CLXII   i. CLXXXVIII   j. CCLXII

5. Write the successors of the following Roman numerals.

a. XIX   b. XL   c. XXIX   d. XXXIV   e. XII

f. XXX   g. LXI   h. LXXX   i. XC   j. LX

6. Write T for true and F for false statements.

a. The symbol V is always subtracted.

b. The Roman symbol for 1000 is D.

c. No Roman symbol is repeated more than three times.

d. The letter C can be repeated for three times.

e. When X is written to the left of L or C, it is added.

☐
☐
☐
☐
☐

7. Arrange in ascending order.

a. II, XXX, XIX, IV, XV   b. V, L, XXI, III, XI

c. VIII, XX, V, LV, XIV   d. XVI, XV, XXII, VII, X

8. Arrange in descending order.

a. XX, LXII, XVI, XXIV, VI   b. CLV, XVII, X, XXXIV, LV

c. VI, XX, XCI, XXII, IX   d. LXIX, XIV, XX, XV, XCI

9. Encircle the incorrect ones.

a. XC   b. VX   c. XCI   d. XVX   e. IIII

f. IIV   g. VII   h. IIX   i. XIII   j. IIIXX

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PUZZLE BAG
(Concept, skill, application and thinking based)

Multiple Choice Questions (MCQs)

1. Which is the same as 80 tens?
   - a. 8 ones
   - b. 80 ones
   - c. 8 hundreds
   - d. 80 hundreds

2. Which number has the greatest value in the thousands place ?
   - a. 28,682
   - b. 12,294
   - c. 50,816
   - d. 34,971

3. The Roman numeral for 100 is :
   - a. X
   - b. L
   - c. C
   - d. M

4. 1 million = _____ thousands.
   - a. 10
   - b. 100
   - c. 1000
   - d. None of these

5. The sum of place values of both the 6 in 63261 is :
   - a. 60060
   - b. 66000
   - c. 60006
   - d. 60600

Mental Maths

1. Observe the pattern and fill in the blanks :
   a. 98565, 98575, 98585, _____ , _____ , _____
   b. 39584, 39684, 39784, _____ , _____ , _____
   c. 66967, 68967, 70967, _____ , _____ , _____

2. Write the place, place value and period of the underlined digits :

	Place	Pace Value	Period
a. 59,64,128			
b. 30,19,457			
c. 4,143,204			
d. 72,265,199			
e. 9,736,007			

3. Fill in the blanks :

   a. The successor of 457201 is _____ .

   b. The predecessor of 145620 is _____ .

   c. The face value of 3 in 306545 is _____ .

d. 7000000 + 7000 + 70 + 7 = _____.

e. The place value of 9 in 93005601 is _____.

4. Write the sum in Roman numerals :

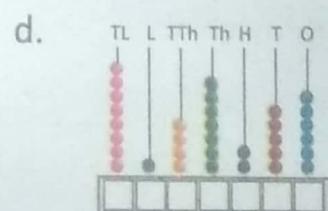   a. XV + VII   b. XX + XIV   c. C+ L + X   d. LX + XL + V

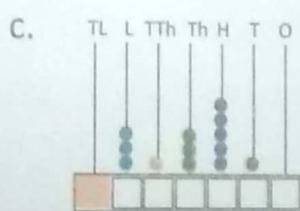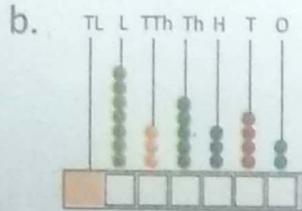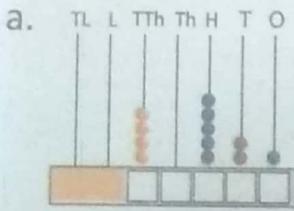5. Write the following numbers in figures.

   a. Twenty-one thousand forty-four hundred sixty.

   b. Thirty-three lakh eighty-three hundred thirty-three.

   c. Forty-one lakh fifty thousand six.

   d. Fifteen lakh two thousand four hundred twenty-one.

5. Write the numbers shown on the abacus.

Round off the following numbers.

a. 52394 to nearest 10   b. 40925 to nearest 100

c. 181023 to nearest 1000   d. 250535 to nearest 1000

Think Beyond and Answer

.. Use the digits 2,8,9 to build the greatest and the smallest five -digit numbers. Each of the digits must be used and repetition of digits is allowed.

2. Round off 85674 to the nearest a. ten b. hundred c. thousand. What do you notice?

3. Which one is smaller : a largest 4-digit number or the smallest 5-digit number.

4. Form the largest six-digit number having 0 at tens place and without repeating the digits.

Problem Solving

. I am a four-digit number. I have 2 in my thousands place and 3 in my hundreds place. I am a palindrome. What number am I ?

. Build the greatest 5-digit number using different digits.

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