

## 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

<b>Eleven</b>	<b>Twelve</b>	<b>Thirteen</b>	<b>Fourteen</b>	<b>Fifteen</b>
11 x 1 = 11	12 x 1 = 12	13 x 1 = 13	14 x 1 = 14	15 x 1 = 15
11 x 2 = 22	12 x 2 = 24	13 x 2 = 26	14 x 2 = 28	15 x 2 = 30
11 x 3 = 33	12 x 3 = 36	13 x 3 = 39	14 x 3 = 42	15 x 3 = 45
11 x 4 = 44	12 x 4 = 48	13 x 4 = 52	14 x 4 = 56	15 x 4 = 60
11 x 5 = 55	12 x 5 = 60	13 x 5 = 65	14 x 5 = 70	15 x 5 = 75
11 x 6 = 66	12 x 6 = 72	13 x 6 = 78	14 x 6 = 84	15 x 6 = 90
11 x 7 = 77	12 x 7 = 84	13 x 7 = 91	14 x 7 = 98	15 x 7 = 105
11 x 8 = 88	12 x 8 = 96	13 x 8 = 104	14 x 8 = 112	15 x 8 = 120
11 x 9 = 99	12 x 9 = 108	13 x 9 = 117	14 x 9 = 126	15 x 9 = 135
11 x 10 = 110	12 x 10 = 120	13 x 10 = 130	14 x 10 = 140	15 x 10 = 150

<b>Sixteen</b>	<b>Seventeen</b>	<b>Eighteen</b>	<b>Nineteen</b>	<b>Twenty</b>
16 x 1 = 16	17 x 1 = 17	18 x 1 = 18	19 x 1 = 19	20 x 1 = 20
16 x 2 = 32	17 x 2 = 34	18 x 2 = 36	19 x 2 = 38	20 x 2 = 40
16 x 3 = 48	17 x 3 = 51	18 x 3 = 54	19 x 3 = 57	20 x 3 = 60
16 x 4 = 64	17 x 4 = 68	18 x 4 = 72	19 x 4 = 76	20 x 4 = 80
16 x 5 = 80	17 x 5 = 85	18 x 5 = 90	19 x 5 = 95	20 x 5 = 100
16 x 6 = 96	17 x 6 = 102	18 x 6 = 108	19 x 6 = 114	20 x 6 = 120
16 x 7 = 112	17 x 7 = 119	18 x 7 = 126	19 x 7 = 133	20 x 7 = 140
16 x 8 = 128	17 x 8 = 136	18 x 8 = 144	19 x 8 = 152	20 x 8 = 160
16 x 9 = 144	17 x 9 = 153	18 x 9 = 162	19 x 9 = 171	20 x 9 = 180
16 x 10 = 160	17 x 10 = 170	18 x 10 = 180	19 x 10 = 190	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

Let's revise the mathematical concepts that we have learnt in previous classes.

1. Write the numerals.

a. Four hundred eighty-two

b. Nine hundred seventy-two

c. Eight hundred ninety-four

d. Four hundred twenty-two

e. Seven hundred eighty-two

2. Write the number names.

a. 899

b. 659

c. 872

d. 618

e. 976

3. Write the number which comes just after.

a. 452

b. 320

c. 401

d. 599

e. 200

f. 450

g. 836

h. 905

4. Write the number which comes just before.

a. 751

b. 890

c. 499

d. 146

e. 347

f. 741

g. 113

h. 854

5. Write the number which comes in between.

a. 740 742

b. 359 361

c. 748 750

d. 269 271

e. 637 639

f. 915 917



6. Write the place value of the coloured digit in each number.

a. 843

b. 322

c. 990

d. 651

e. 589

f. 823

7. Write the following numbers in expanded form.

a. 694

=

b. 519

=

c. 501

=

d. 990

=

e. 764

=

f. 519

=

8. Write the following in short form.

a.  $600 + 70 + 8 =$

b.  $500 + 90 + 7 =$

c.  $300 + 50 + 1 =$

d.  $400 + 80 + 4 =$

e.  $700 + 40 + 3 =$

f.  $800 + 30 + 0 =$

9. Circle the smallest number in each group.

a. 574, 872, 882, 796, 694

b. 689, 314, 821, 715, 911

c. 704, 995, 320, 599, 924

d. 881, 277, 818, 888, 811

e. 694, 468, 864, 846, 648

f. 969, 979, 939, 989, 929

10. Circle the largest number in each group.

a. 414, 144, 244, 304, 756

b. 204, 314, 824, 242, 324

c. 432, 234, 423, 324, 412

d. 176, 671, 167, 761, 617

e. 204, 420, 342, 182, 912

f. 469, 279, 589, 359, 639

11. Put  $>$ ,  $<$  or  $=$  in each box.

a.

843

834

b.

774

774

c.

648

648

d.

324

432

e.

292

293

f.

724

742

g.

889

869

h.

959

969

i.

523

533

12. Arrange the following numbers in descending order.

- a. 459, 954, 945, 495, 549
- b. 604, 640, 406, 460, 455
- c. 246, 827, 324, 423, 792
- d. 448, 824, 428, 842, 482
- e. 384, 483, 438, 834, 348

13. Arrange the following numbers in ascending order.

- a. 948, 849, 498, 984, 894
- b. 765, 756, 675, 567, 576
- c. 942, 294, 249, 924, 429
- d. 603, 306, 196, 169, 271
- e. 521, 125, 512, 215, 152

14. Form all possible 3-digit numbers using the given digits (Use each digit only once).

- a. 6, 9, 8 →
- b. 4, 9, 1 →
- c. 9, 8, 7 →
- d. 9, 5, 4 →
- e. 2, 6, 9 →
- f. 4, 7, 0 →

15. Form the 3-digit smallest number using the given digits in each case.

- a. 7, 2, 9  b. 8, 9, 4  c. 1, 5, 8

16. Form the 3-digit largest number using the given digits in each case.

- a. 6, 2, 0  b. 5, 7, 5  c. 2, 4, 8





17. Find the sum.

a. 

H	T	O
---	---	---

2 8 7

+ 4 2 5

--	--	--

b. 

H	T	O
---	---	---

7 8 4

+ 1 3 9

--	--	--

c. 

H	T	O
---	---	---

4 7 8

+ 2 4 9

--	--	--

d. 

H	T	O
---	---	---

5 8 6

+ 2 6 7

--	--	--

e. 

H	T	O
---	---	---

6 5 7

+ 2 3 5

--	--	--

f. 

H	T	O
---	---	---

5 3 9

+ 2 6 3

--	--	--

g. 

H	T	O
---	---	---

4 3 4

+ 5 4 7

--	--	--

h. 

H	T	O
---	---	---

3 7 5

+ 4 3 1

--	--	--

18. Find the difference.

a. 

H	T	O
---	---	---

6 8 4

- 3 7 9

--	--	--

b. 

H	T	O
---	---	---

8 4 5

- 4 8 8

--	--	--

c. 

H	T	O
---	---	---

6 7 4

- 2 7 8

--	--	--

d. 

H	T	O
---	---	---

5 8 4

- 2 9 7

--	--	--

e. 

H	T	O
---	---	---

3 9 3

- 1 8 9

--	--	--

f. 

H	T	O
---	---	---

6 5 3

- 4 9 8

--	--	--

g. 

H	T	O
---	---	---

3 0 7

- 1 9 9

--	--	--

h. 

H	T	O
---	---	---

3 4 2

- 2 1 9

--	--	--

19. Multiply the following.

a. 

H	T	O
---	---	---

3 4

× 7

--	--	--

b. 

H	T	O
---	---	---

7 5

× 6

--	--	--

c. 

H	T	O
---	---	---

9 7

× 9

--	--	--

d. 

H	T	O
---	---	---

8 4

× 8

--	--	--

e. 

H	T	O
---	---	---

$$\begin{array}{r} 113 \\ \times 7 \\ \hline \end{array}$$

f. 

H	T	O
---	---	---

$$\begin{array}{r} 231 \\ \times 3 \\ \hline \end{array}$$

g. 

H	T	O
---	---	---

$$\begin{array}{r} 500 \\ \times 5 \\ \hline \end{array}$$

h. 

H	T	O
---	---	---

$$\begin{array}{r} 435 \\ \times 4 \\ \hline \end{array}$$

20. Divide the following.

a.  $8 \overline{)56}$

b.  $7 \overline{)49}$

c.  $5 \overline{)45}$

d.  $4 \overline{)36}$

e.  $2 \overline{)884}$

f.  $3 \overline{)936}$

g.  $7 \overline{)889}$

h.  $3 \overline{)147}$

21. Add the following.

a. 

m	cm
---	----

$$\begin{array}{r} 629 \\ + 255 \\ \hline \end{array}$$

b. 

m	cm
---	----

$$\begin{array}{r} 3929 \\ + 2438 \\ \hline \end{array}$$

c. 

m	cm
---	----

$$\begin{array}{r} 25637 \\ + 25321 \\ \hline \end{array}$$

d. 

m	cm
---	----

$$\begin{array}{r} 1350 \\ + 1231 \\ \hline \end{array}$$

e. 

kg	g
----	---

$$\begin{array}{r} 6396 \\ + 8147 \\ \hline \end{array}$$

f. 

kg	g
----	---

$$\begin{array}{r} 18728 \\ + 39194 \\ \hline \end{array}$$

g. 

kg	g
----	---

$$\begin{array}{r} 34868 \\ + 16115 \\ \hline \end{array}$$

h. 

kg	g
----	---

$$\begin{array}{r} 232118 \\ + 424124 \\ \hline \end{array}$$





i. 

l	ml
---	----

$$\begin{array}{r} 8 \quad 156 \\ + 5 \quad 371 \\ \hline \end{array}$$

j. 

l	ml
---	----

$$\begin{array}{r} 16 \quad 821 \\ + 19 \quad 156 \\ \hline \end{array}$$

k. 

l	ml
---	----

$$\begin{array}{r} 321 \quad 619 \\ + 450 \quad 281 \\ \hline \end{array}$$

l. 

l	ml
---	----

$$\begin{array}{r} 18 \quad 712 \\ + 30 \quad 171 \\ \hline \end{array}$$

22. Subtract the following.

a. 

m	cm
---	----

$$\begin{array}{r} 8 \quad 50 \\ - 3 \quad 23 \\ \hline \end{array}$$

b. 

m	cm
---	----

$$\begin{array}{r} 99 \quad 39 \\ - 32 \quad 18 \\ \hline \end{array}$$

c. 

m	cm
---	----

$$\begin{array}{r} 978 \quad 69 \\ - 309 \quad 39 \\ \hline \end{array}$$

d. 

m	cm
---	----

$$\begin{array}{r} 82 \quad 50 \\ - 81 \quad 49 \\ \hline \end{array}$$

e. 

kg	g
----	---

$$\begin{array}{r} 15 \quad 780 \\ - 11 \quad 346 \\ \hline \end{array}$$

f. 

kg	g
----	---

$$\begin{array}{r} 24 \quad 261 \\ - 12 \quad 156 \\ \hline \end{array}$$

g. 

kg	g
----	---

$$\begin{array}{r} 82 \quad 972 \\ - 38 \quad 483 \\ \hline \end{array}$$

h. 

kg	g
----	---

$$\begin{array}{r} 856 \quad 631 \\ - 598 \quad 365 \\ \hline \end{array}$$

i. 

l	ml
---	----

$$\begin{array}{r} 54 \quad 726 \\ - 19 \quad 348 \\ \hline \end{array}$$

j. 

l	ml
---	----

$$\begin{array}{r} 594 \quad 369 \\ - 118 \quad 243 \\ \hline \end{array}$$

k. 

l	ml
---	----

$$\begin{array}{r} 761 \quad 654 \\ - 534 \quad 412 \\ \hline \end{array}$$

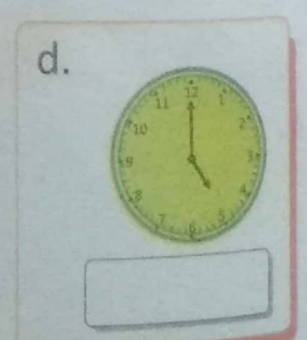
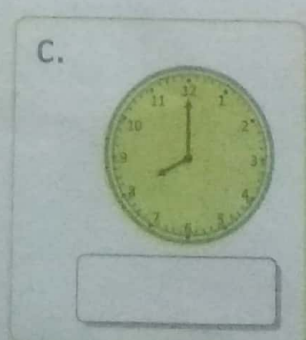
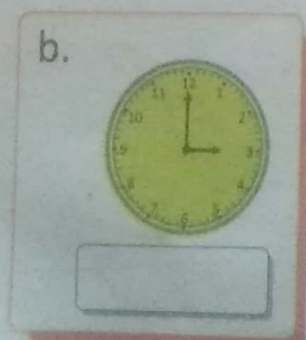
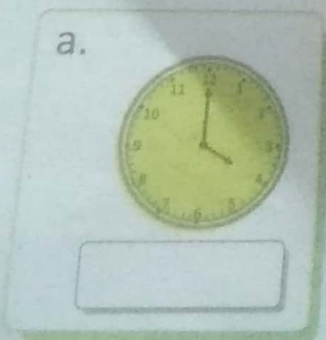
l. 

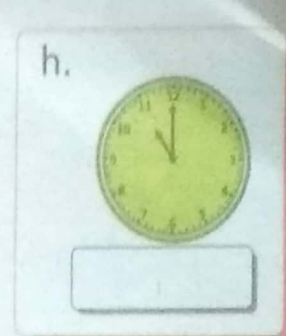
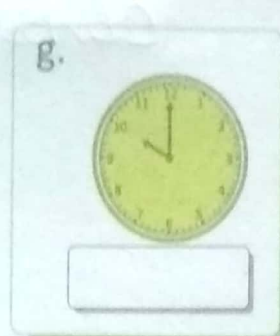
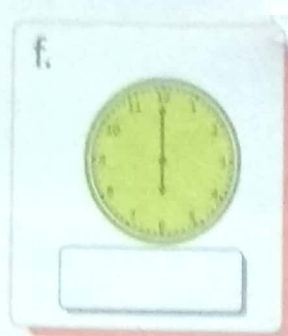
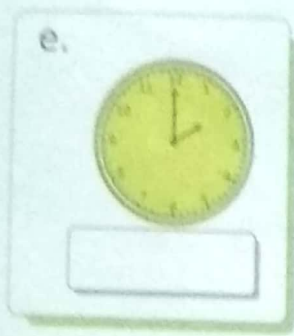
l	ml
---	----

$$\begin{array}{r} 82 \quad 937 \\ - 48 \quad 556 \\ \hline \end{array}$$

23. Look and write the time shown by each clock.

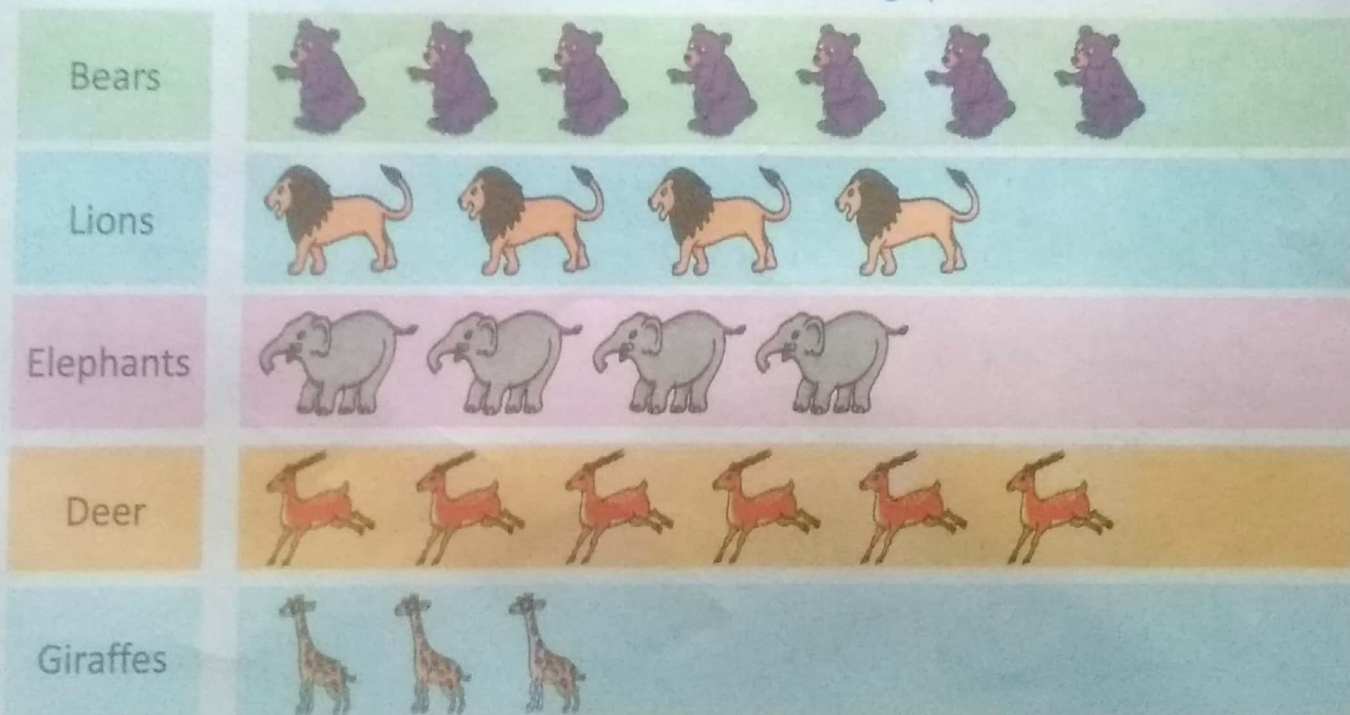




24. Fill in the blanks.

- April has \_\_\_\_\_ days.
- Monday comes after \_\_\_\_\_.
- There are \_\_\_\_\_ days in a leap year.
- \_\_\_\_\_ is the second last month of the year.
- There are \_\_\_\_\_ days in a week.
- \_\_\_\_\_ is the shortest month of the year.

25. Look at the pictograph and answer the following questions.

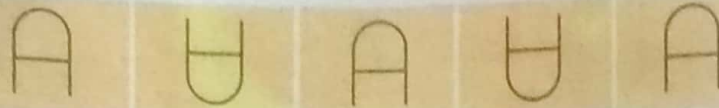


- Which animals are the largest in number ?
- Which animals are the least in number ?
- What is the total number of animals ?
- How many elephants are there ?
- How many bears and lions are there in all ?

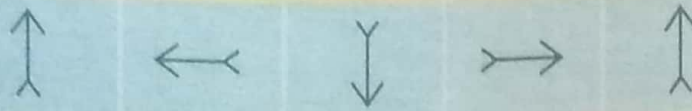


26. Observe the following patterns and extend them up to next three places.

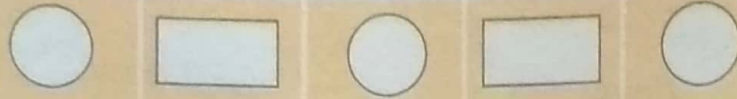
a.



b.



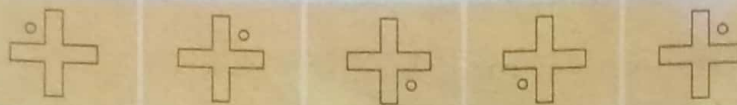
c.



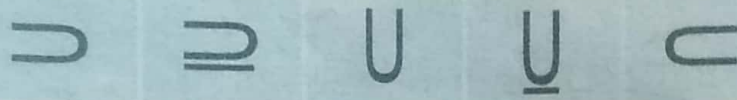
d.



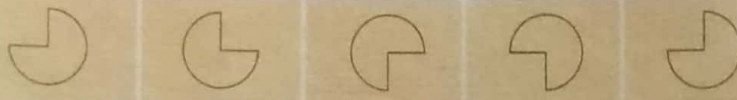
e.



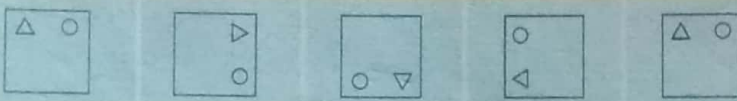
f.



g.



h.



27. Observe the pattern and write the numbers that follow in each series.

a.

271

274

277






b.

305

315

325






c.

310

410

510






d.

531

631

731






e.

249

359

469






f.

800

700

600






g.

750

745

740






h.

340

350

360









1. Fill in the table.

Number	Thousands	Hundreds	Tens	Ones	Number Name
a. 3948					
b. 7541					
c. 4643					
d. 6804					
e. 8009					
f. 9682					

2. Fill in the table.

Number name	Thousands	Hundreds	Tens	Ones	Number
a. Three thousand eight hundred eighty-four					
b. Seven thousand nine hundred five					
c. Six thousand two hundred sixty-five					
d. Seven thousand three hundred sixty-three					
e. Eight thousand three hundred seventy-five					
f. Nine thousand nine hundred nineteen					

3. Observe the pattern and write the next four numbers.

- a. 5805 5806 5807 5808
- b. 3333 3334 3335 3336
- c. 2796 2797 2798 2799
- d. 8475 8476 8477 8478
- e. 9801 9802 9803 9804
- f. 6668 6669 6670 6671

4. Observe the pattern and write the next four numbers in descending order.

- a. 1044 1043 1042 1041
- b. 8844 8744 8644 8544
- c. 6401 5400 6399 6398
- d. 8256 8255 8254 8253
- e. 7478 7477 7476 7475
- f. 6489 6488 6487 6486

Understand the pattern and write next four numbers.

- a. 3854 3856 3858 3860
- b. 5200 5204 5208 5212
- c. 8677 8682 8687 8692
- d. 3213 3313 3413 3513
- e. 1111 2222 3333 4444
- f. 6535 6435 6335 6235





## Numbers on the Abacus

An abacus has four vertical spines showing ones, tens, hundreds and thousands. The value depends on the beads on the spine.

Let's read the number shown on the abacus :

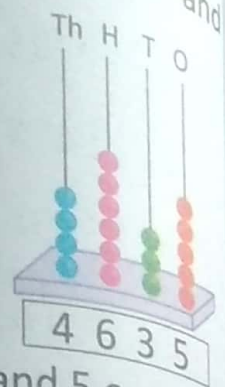
Ones spine has 5 beads.

Tens spine has 3 beads.

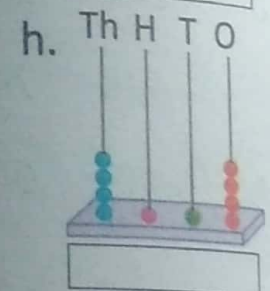
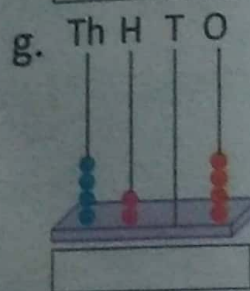
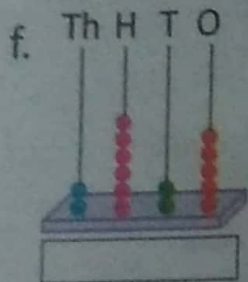
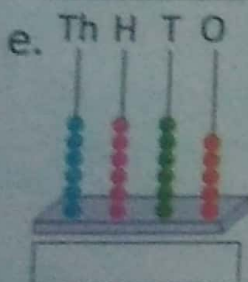
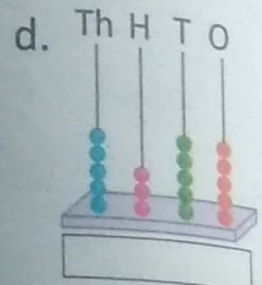
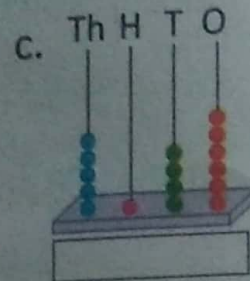
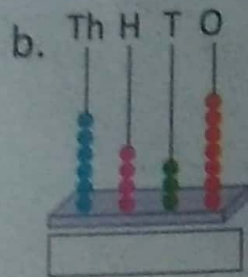
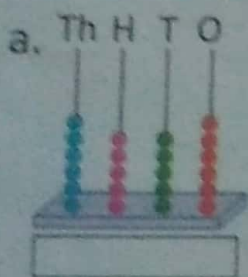
Hundreds spine has 6 beads.

Thousands spine has 4 beads.

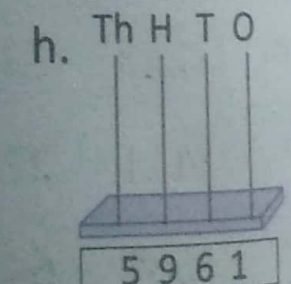
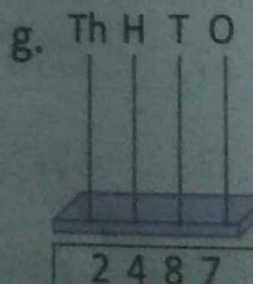
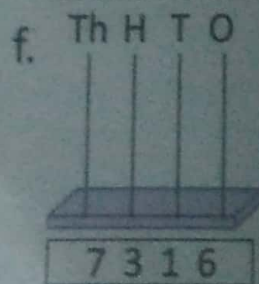
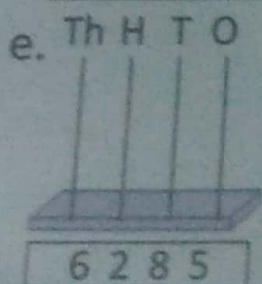
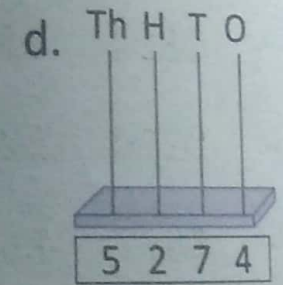
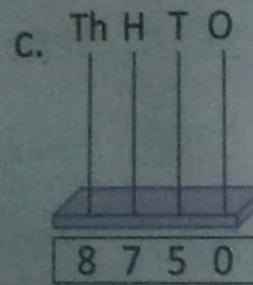
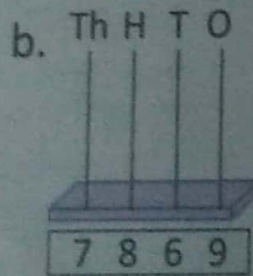
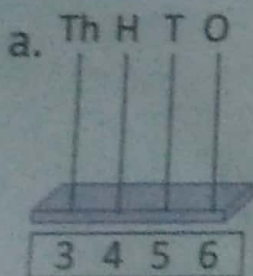
So, the number is made up of 4 thousands, 6 hundreds, 3 tens and 5 ones. We read it 4635, i.e., four thousand six hundred thirty-five.



1. Write the number shown by each abacus.



2. Draw beads on each abacus to show the number.







## Place Value and Face Value

**Place Value :** Place value of a digit in a number depends upon its place in the number. Let us calculate the place value of each digit in 3485 :

3 4 8 5

shows 5 ones

$$\rightarrow 5 \times 1 = 5$$

shows 8 tens

$$\rightarrow 8 \times 10 = 80$$

shows 4 hundreds

$$\rightarrow 4 \times 100 = 400$$

shows 3 thousands

$$\rightarrow 3 \times 1000 = 3000$$

So, In 3485

Place value of 5 = 5

Place value of 8 = 80

Place value of 4 = 400

Place value of 3 = 3000

**Face Value :** Face value of each digit in a number is equal to the digit itself.

So, In 3485

Face value of 5 = 5

Face value of 8 = 8

Face value of 4 = 4

Face value of 3 = 3

### Remember

1. Place value of 0 is always 0 irrespective of its place.
2. In a number made up of two or more equal digits, place value of left digit is ten times of the digit to its right.
3. Place value of a digit is obtained by multiplying the digit by its place.
4. Face value of a digit is always the same.

1. Write the face value and place value of each digit in the following.

a. 8 0 4 2

Digit	Face Value	Place Value
8		
0		
4		
2		

b. 4 7 9 8

Digit	Face Value	Place Value
4		
7		
9		
8		

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

Number	Face Value	Place Value	Number	Face Value	Place Value
a. 7658			b. 7049		
c. 3544			d. 9090		
e. 3645			f. 7772		
g. 5667			h. 9554		





## Expanded Form and Short Form

**Expanded Form of Number :** The sum of the place values of all digits in a number is called its expanded form.

$$3569 = 3 \text{ thousands} + 5 \text{ hundreds} + 6 \text{ tens} + 9 \text{ ones}$$

(Expanded form in words)

$$= 3 \times 1000 + 5 \times 100 + 6 \times 10 + 9 \times 1$$

(Expanded form in figures)

$$= 3000 + 500 + 60 + 9$$

**Short Form of Number :** To write the expanded form of a number in standard form is called its short form.

$$\text{Short form of } 3000 + 600 + 50 + 8 = 3658$$

### 1. Fill in the boxes.

a.  $2054 =$   thousands +  hundreds +  tens +  ones

b.  $3911 =$   thousands +  hundreds +  tens +  ones

c.  $7264 =$   thousands +  hundred +  tens +  ones

d.  $9197 =$   thousands +  hundred +  tens +  ones

e.  $8280 =$   thousands +  hundreds +  tens +  one

### 2. Write the following numbers in expanded form.

a.  $3819 =$   +  +  +

b.  $4054 =$   +  +  +

c.  $9478 =$   +  +  +

d.  $8107 =$   +  +  +

e.  $3589 =$   +  +  +

### 3. Write the following in short form.

a.  $5000 + 600 + 60 + 5 =$        b.  $5000 + 300 + 80 + 1 =$

c.  $8000 + 900 + 40 + 8 =$        d.  $7000 + 800 + 0 + 8 =$

e.  $4000 + 700 + 90 + 9 =$        f.  $9000 + 0 + 0 + 4 =$

