MATHS

NOTES

STD - II

(2022-2023)

Numerals : 501 – 550

501		511		521		531		541	
502		512		522		532		542	
503		513		523		533		543	
504		514		524		534		544	
505		515		525		535		545	
506		516		526		536		546	
507		517		527		537		547	
508		518		528		538		548	
509		519		529		539		549	
510		520		530		540		550	

Write number names for the following numerals:

501 – Five hundred one

502 - Five hundred two

503 – Five hundred three

504 – Five hundred four

505 – Five hundred five

506 – Five hundred six

507 – Five hundred seven

508 – Five hundred eight

509 – Five hundred nine

510 – Five hundred ten

Ch – 2 Counting in groups

I. Give the number that comes after:

1.188 , _189_

2.130 , _131_

II. Give the number that comes before :

a) _175_ , 176

b) _127_ , 128

III. Write the number that comes in between:

a) 29 , _30_ , 31

b) 17 , _18_ , 19

IV. Complete the pattern of numbers :

a) 140 , 150 , _160_ , _170_ , _180_ , 190 , _200_

b) 115 , 125 , _135_ , _145_ , 155 , _165_ , _175_

V. Choose more or less:

1) Number of hairs on your head

   (a) more than 40)   b) less than 40

2) Number of seeds in an apple

   a) more than 60   (b) less than 60)

3) Number of matchsticks in a matchbox

   (a) more than 25)   b) less than 25

4) Number of pencils in your class

   (a) more than 45)   b) less than 45

5) Number of spokes in the chakra of our national flag

   a) more than 30   (b) less than 30)

VI. **Ordinals**

Numbers that tell the order or position of things.

1st - first
2nd - second
3rd - third
4th - fourth
5th - fifth
6th - sixth
7th - seventh
8th - eighth
9th - ninth
10th - tenth

Numerals : 551 – 600

551		561		571		581		591
552		562		572		582		592
553		563		573		583		593
554		564		574		584		594
555		565		575		585		595
556		566		576		586		596
557		567		577		587		597
558		568		578		588		598
559		569		579		589		599
560		570		580		590		600

Write number names for the following numerals:

511 – Five hundred eleven

512 – Five hundred twelve

513 – Five hundred thirteen

514 – Five hundred fourteen

515 – Five hundred fifteen

516 – Five hundred sixteen

517 – Five hundred seventeen

518 – Five hundred eighteen

519 – Five hundred nineteen

520 - Five hundred twenty
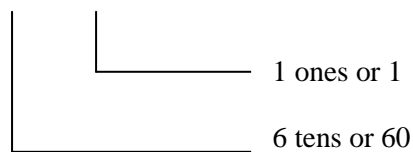
CH – 4 : Counting in tens

I. Place value:
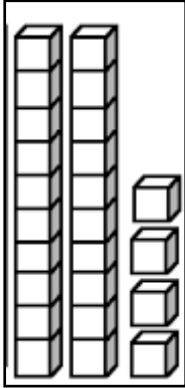
 2 tens + 4 ones

   20   +   4   = 24

II. Write the place value of the digits :

T   O

6   1

                    1 ones or 1

                    6 tens or 60

III. Write the numbers in expanded form:

1. 33 = 3 Tens   +   3 Ones   = 30 + 3

2. 187 = 1 Hundred + 8 Tens + 7 Ones   = 100 + 80 + 7

IV. Count the following in tens:

     10   +   **10**   + **3** = **23**

* There are <u>2</u> boxes of <u>10 </u> stars each.

* Total stars = <u>23</u>

I. Notes:

- When we put things together we 'add' them
- The answer is called the 'sum'

$$5$$
$$+ \quad 2$$
Sum $\longrightarrow$ 7

- When 1 is added to a number we get the next number as the answer.

Example: $20 + 1 = 21$
$1 + 4 = 5$

- When zero is added to a number we get the same number as the answer.

Example: $23 + 0 = 23$
$0 + 9 = 9$

II. Add with the help of number line :

$5 + 4$

$5 \quad + \quad 4 \quad = 9$

0 1 2 3 4 5 6 7 8 ⑨ 10
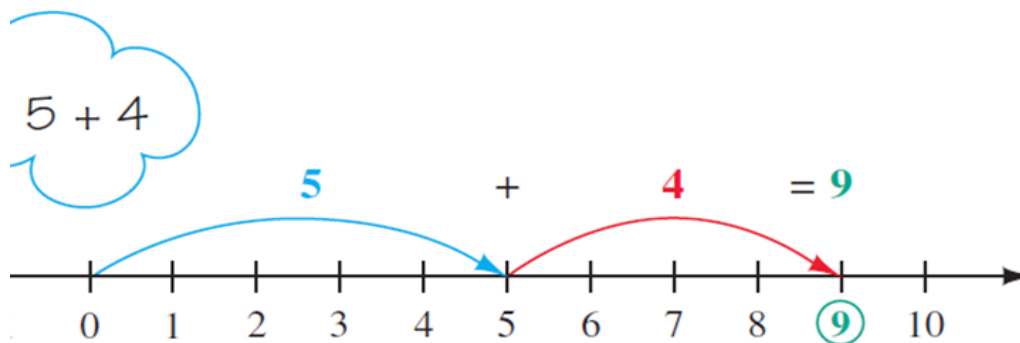
III. Add the following numbers (without regrouping):

a) $3 + 2 + 4$

T	O
	3
+	2
	4
	9

b). $15 + 10$

T	O
1	5
+ 1	0
2	5

IV. <u>**Add the following numbers (with regrouping):**</u>

a) 5 + 3 + 6

	T	O
	⟨1⟩	5
+		3
		6
	1	4

b) 23 + 7

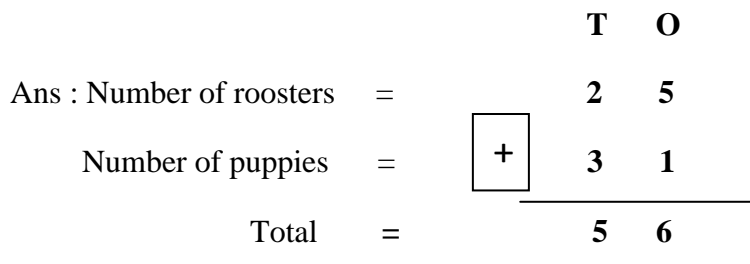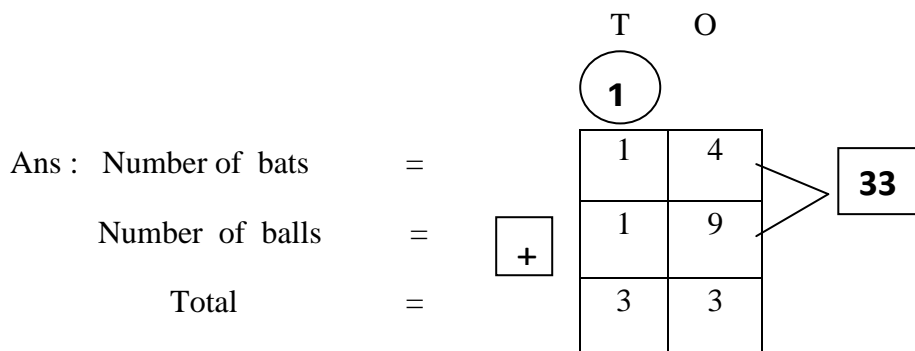|	T	O
	⟨1⟩	
	2	3
+		7
	3	0
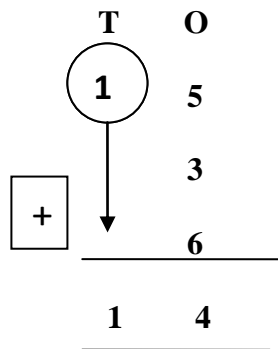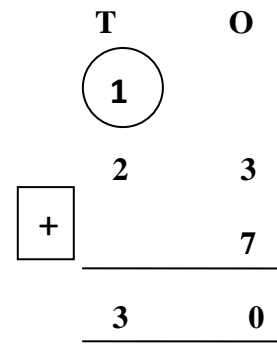
VII. <u>**Word Problem :**</u>

a) There are 25 roosters and 31 puppies in a farm. How many roosters and puppies are there

in all ?

			T	O
Ans : Number of roosters	=		2	5
Number of puppies	=	+	3	1
Total	=		5	6

b) There are 14 bats and 19 balls in a shop. Find the total number of bats and balls in the

shop?

			T	O	
			⟨1⟩		
Ans : Number of bats	=		1	4	
Number of balls	=	+	1	9	33
Total	=		3	3	

NUMERALS 601-650

601		611		621		631		641	
602		612		622		632		642	
603		613		623		633		643	
604		614		624		634		644	
605		615		625		635		645	
606		616		626		636		646	
607		617		627		637		647	
608		618		628		638		648	
609		619		629		639		649	
610		620		630		640		650	

Write number names for the following numerals :

521 – Five hundred twenty one

522 – Five hundred twenty two

523 – Five hundred twenty three

524 – Five hundred twenty four

525 – Five hundred twenty five

526 – Five hundred twenty six

527 – Five hundred twenty seven

528 –Five hundred twenty eight

529 – Five hundred twenty nine

530 – Five hundred thirty

531 - Five hundred thirty one

532 - Five hundred thirty two

533 - Five hundred thirty three

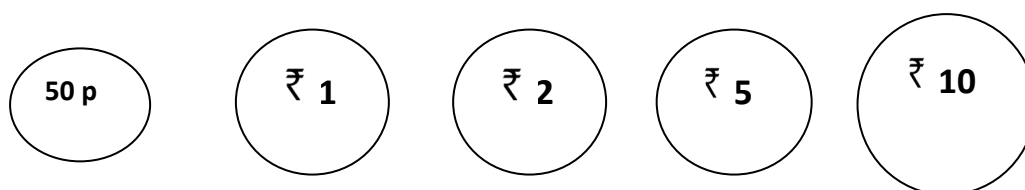534 - Five hundred thirty four

535 - Five hundred thirty five

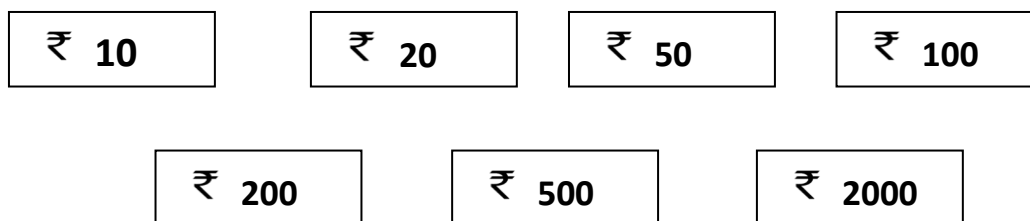# CH: 8 – Tens and ones

I. Note:

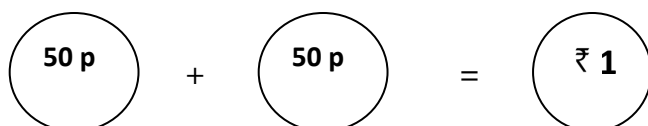The symbol of Rupees - ₹

| 100 paise = ₹ 1 |

Currency - Coins

(50 p)   (₹ 1)   (₹ 2)   (₹ 5)   (₹ 10)

Currency - Notes

| ₹ 10 | | ₹ 20 | | ₹ 50 | | ₹ 100 |

| ₹ 200 | | ₹ 500 | | ₹ 2000 |

II. Money Exchange:

a) A one rupee coin can be exchanged with two 50 paise coins

(50 p)   +   (50 p)   =   (₹ 1)

b) A five rupee coin can be exchanged with one ₹ 1 coin and two ₹ 2 coins

(₹ 1)   +   (₹ 2)   +   (₹ 2)   =   (₹ 5)
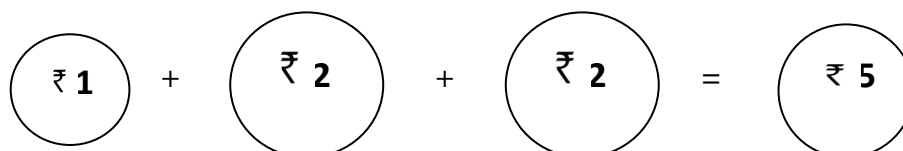
III. Fill in the blanks:

a). 30 + <u>5</u> = 35

b). <u>10</u> + 9 = 19

c). 64 = <u>60</u> + <u>4</u>

d). <u>99</u> = 90 + 9

IV.Add:

a)

₹

T	O
4	5
3	5
8	0

(1)

+

₹

b)

₹

T	O
4	0
2	5
6	5

+

₹

V. Word problem :

a) Sunita has ₹ 10. Her mother gave her ₹ 50 as pocket money. How much does she have totally?

Ans:

		₹	
		T	O
Amount with Sunita	=	1	0
Amount her mother gave	=	5	0
Total amount	=	6	0

+

CH :12 – Give and take

I. Notes:

a) When we subtract, we " take away" or " minus" to find how much is left.

The answer in subtraction is called " difference".

b). Subtraction of zero:

When "0" is subtracted from a number , we get the same number as the answer.

Example: 15 - 0 = 15

c) . Subtraction of one:

When "1" is subtracted from a number , we get the number before it as the answer.
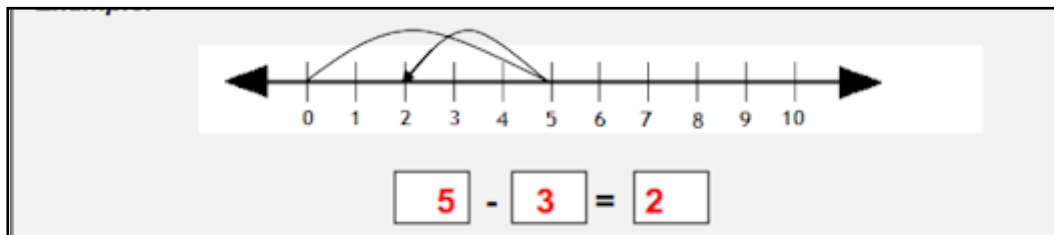
Example: 55 - 1 = 54

d) . Subtraction of the same number:

When we subtract a number by itself , we get zero as the answer.

Example: 12 - 12 = 0

II. Subtraction using number line:

a) **5 – 3**

$$5 - 3 = 2$$

III. Subtract without regrouping :

a) Subtract 4 from 59

T	O
5	9
-	4
5	5

b) Subtract 68 from 99

T	O
9	9
- 6	8
3	1

IV. Subtract with regrouping:

a)

T	O
^{3} 4̸	6̸ ^{16}
3	8
0	8

b)

T	O
8 9̸	2̸ 12
8	6
0	6

V. Word problems:

1) 25 birds are sitting on a tree. Out of which 12 birds flew away. How many birds are left on the tree?

Ans:

		T	O
Number of birds	=	2	5
Number of birds, flew away	=	- 1	2
Number of birds left	=	1	3

2) Riya had 65 beads of which 37 beads were lost. How many beads are left with Riya?

Ans:

		T	O
		5	15
Total number of beads	=	6̸	5̸
Number of beads lost	=	- 3	7
Number of beads left with riya	=	2	8

VI Solve the following :
a) Subtract 7 from the sum of 4 and 6

Step I:

T	O
①	
	4
+	6
1	0

Step II :

T	O
0	10
1̸	0̸
	7
0	3

Ch – 14 : Birds come, birds go

I.Connecting Addition and Subtraction:

a $4 + \underline{8} = 12$

  $12 - 4 = \underline{8}$

b $7 + \underline{12} = 19$

  $19 - 7 = \underline{12}$

c $14 + \underline{6} = 20$

  $20 - 14 = \underline{6}$

d $9 + \underline{9} = 18$

  $18 - 9 = \underline{9}$

II.Word problem :

a) Manoj had ₹ 80 . He bought a shirt for ₹ 42 . How much money does he have now?

Ans:

		T ₹ O
		7 10
Amount with Manoj	=	8̶ 0̶
Cost of the shirt	=	4 2
Amount left with him	=	3 8

NUMERALS: 651 - 700

651		661		671		681		691
652		662		672		682		692
653		663		673		683		693
654		664		674		684		694
655		665		675		685		695
656		666		676		686		696
657		667		677		687		697
658		668		678		688		698
659		669		679		689		699
660		670		680		690		700

Write number names for the following numerals :

535 – Five hundred thirty five

536 – Five hundred thirty six

537 – Five hundred thirty seven

538 – Five hundred thirty eight

539 – Five hundred thirty nine

540 – Five hundred forty

541 – Five hundred forty one

542 – Five hundred forty two

543 – Five hundred forty three

544 - Five hundred forty four

545– Five hundred forty five

546 – Five hundred forty six

547 – Five hundred forty seven

548 – Five hundred forty eight

549 – Five hundred forty nine

550 – Five hundred fifty

Problem :

The following information shows the list of animals in a zoo . Answer the following using the given information :

ANIMALS	NUMBER
ZEBRA	10
LION	2
TIGER	3
DEER	6
RABBIT	8
MONKEY	6
TOTAL	**35**

Answer the following :

a) Which animal is more in number ?

Ans: Zebra .

b) Name the animals that are same in number ?

Ans: Deer and Monkey.

c) Which animal is least in number ?

Ans: Lion .

d) How many animals are there in all ?

Ans: 35.

NUMERALS: <u>701 TO 750</u>

701	711	721	731	741
702	712	722	732	742
703	713	723	733	743
704	714	724	734	744
705	715	725	735	745
706	716	726	736	746
707	717	727	737	747
708	718	728	738	748
709	719	729	739	749
710	720	730	740	750

<u>Write number names for the following numerals :</u>

551 – Five hundred fifty one

552- Five hundred fifty two

553-Five hundred fifty three

554 –Five hundred fifty four

555-Five hundred fifty five

556-Five hundred fifty six

557-Five hundred fifty seven

558 –Five hundred fifty eight

559- Five hundred fifty nine

560 –Five hundred sixty

561 –Five hundred sixty one

562 –Five hundred sixty two

563 –Five hundred sixty three

564 –Five hundred sixty four

565 -Five hundred sixty five

566 – Five hundred sixty six

567 – Five hundred sixty seven

568 –Five hundred sixty eight

569 –Five hundred sixty nine

570 –Five hundred seventy.

<u>Ch – 13: The longest step</u>

I.<u>Circle the longest objects:</u>

a)
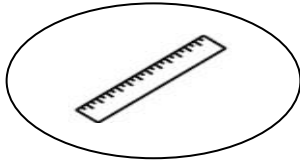
b)
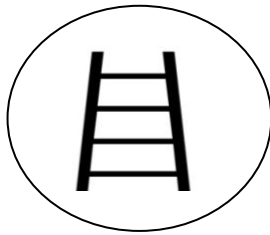
c)
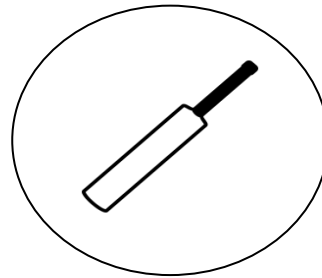
II<u>. Fill in the blanks :</u>

a) My forehead is <u>four</u> fingers wide .

b) My nose is <u>one</u> finger long .

c) My hand is three handspan long .

d) My Maths book is <u>two</u> handspan long .

Ch – 3 How much can you carry ?
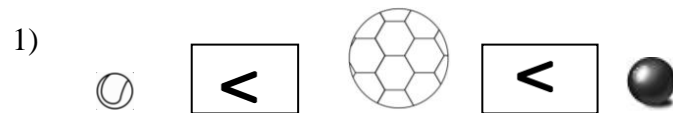
I. State whether the objects are "light" or "heavy"

1. A Sheet of paper – light .
2. A Slab of chocolate – light .
3. A car – heavy.
4. A table – heavy.

Note : Comparing Numbers

We use the following sign to compare numbers.
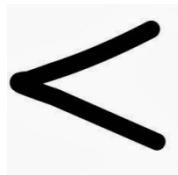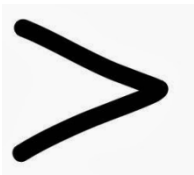
III. COMPARE THE SIZES USING WEIGHT AND ARRANGE IN INCREASING ORDER:

1)

2)

3)

4)

5)
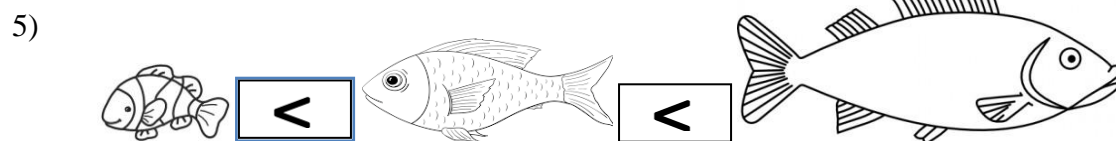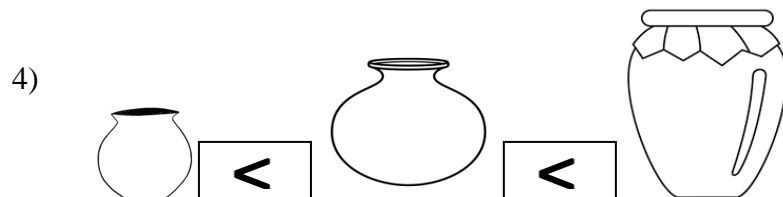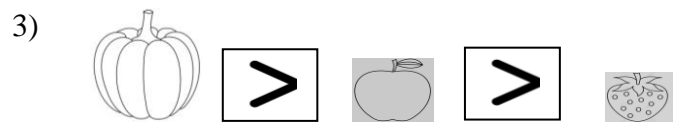
Numerals :751 to 800

751	761	771	781	791
752	762	772	782	792
753	763	773	783	793
754	764	774	784	794
755	765	775	785	795
756	766	776	786	796
757	767	777	787	797
758	768	778	788	798
759	769	779	789	799
760	770	780	790	800

Write number names for the following numerals:

592 – Five hundred ninety two

608 – Six hundred eight

615 – Six hundred fifteen

624 – Six hundred twenty four

637 – Six hundred thirty seven

649 – Six hundred forty nine

Ch – 7 : Jugs and mugs

I .Circle the vessel which holds more water:

a)
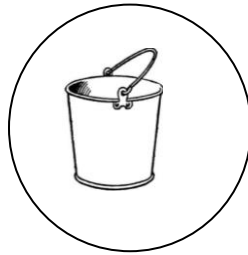
b)
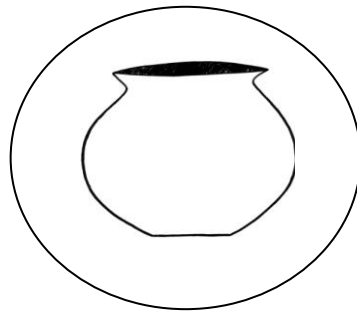
II. How many glass   (   ) of water each vessel holds ?

S.No	OBJECTS	NO OF GLASSES
1.		2
2.		6
3.		4

III.Fill in the blanks :

a) We use 20 mugs of water to take bath.

b) We use one bucket of water to take bath.

c) We use 3 buckets of water to wash clothes.

CH – 11 Lines and Lines

STRAIGHT LINE AND CURVED LINES

Squares , Rectangles and Triangles are made of straight lines.
Circle are made of curved line.

Straight line   Curved line

STANDING , SLEEPING AND SLANTING LINES

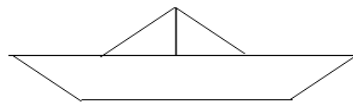A straight line can be a standing line, sleeping line or a slanting line .
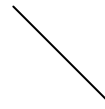
Standing line   Sleeping line   Slanting line

PROBLEM:

Count the number of sleeping lines, slanting lines and standing lines in the given
figure.

Sleeping Lines - 2

Slanting Lines - 4

Standing Lines - 1

Numerals :801 to 850

801	811	821	831	841
802	812	822	832	842
803	813	823	833	843
804	814	824	834	844
805	815	825	835	845
806	816	826	836	846
807	817	827	837	847
808	818	828	838	848
809	819	829	839	849
810	820	830	840	850

Write number names for the following numerals :

665 – Six hundred sixty five

678 – Six hundred seventy eight

689 – Six hundred eighty nine

699 – Six hundred ninety nine

700 – Seven hundred

CH – 1 WHAT IS LONG, WHAT IS ROUND ?

Square

A square has 4 sides and 4 corners . All 4 sides are equal.

Rectangle

A rectangle has 4 sides and 4 corners. The opposite sides of a rectangle are equal in length.

Triangle

A triangle has 3 sides and 3 corners. Its sides may or may not be of same length.
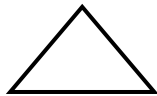
Circle

A circle has no sides and no corners.
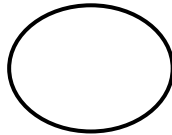
ROLL AND SLIDE

Objects that have flat surface can slide. Example : Ruler
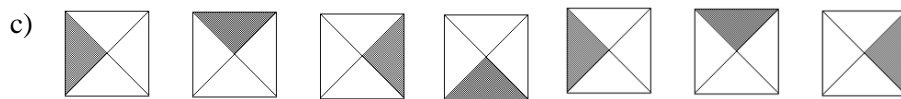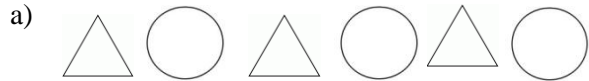Objects that have curved surfaces can roll. Example : Pen

Object	Roll	Slide	Both
Dice		✔	
Pencil box		✔	
Coin			✔
Ball	✔		
Drum			✔
Cone			✔

CH : 5 & 6 – Patterns and Footprints

PATTERNS

Things that are arranged following a rule or rules.

I. PATTERNS IN SHAPES:

a)

b)

c)

d)

e)

II. PATTERN IN WORDS:

1. RED BLUE GREEN RED BLUE GREEN
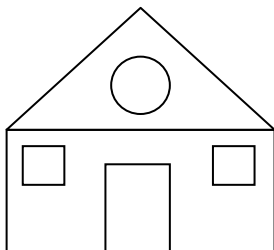
2. YELLOW BLUE RED YELLOW BLUE RED

III. Patterns in numbers :

a) 2 , 4 , 6 , 8 , <u>10</u>, <u>12</u>

b) 24 , 27 , <u>30</u> , <u>33</u> , 36 , 39

IV. Draw a house and count the number of shapes:

Number of:

   a) squares – 2
   b) rectangles – 2
   c) circle – 1
   d) triangle -1

Numerals : 851 - 950

851	861	871	881	891	901	911	921	931	941
852	862	872	882	892	902	912	922	932	942
853	863	873	883	893	903	913	923	933	943
854	864	874	884	894	904	914	924	934	944
855	865	875	885	895	905	915	925	935	945
856	866	876	886	896	906	916	926	936	946
857	867	877	887	897	907	917	927	937	947
858	868	878	888	898	908	918	928	938	948
859	869	879	889	899	909	919	929	939	949
860	870	880	890	900	910	920	930	940	950

Write number names for the following numerals :

749 – Seven hundred forty nine

795 – Seven hundred ninety five

855 – Eight hundred fifty five

890 – Eight hundred ninety

900 – Nine hundred

915 – Nine hundred fifteen

940 – Nine hundred forty

CH – 9 My fun day

Notes:

1 day = 24 hours
1 week = 7 days
1 year = 12 months
1 year = 365 days
1 year = 52 weeks
1 leap year = 366 days
1 hour = 60 minutes

DAYS OF THE WEEK

There are seven days in a week.

They are ,

1. Monday
2. Tuesday
3. Wednesday
4. Thurs day
5. Friday
6. Saturday
7. Sunday

MONTHS OF THE YEAR

There are 12 months in a year.

They are,

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December

I. Fill in the blanks :

a) 4 months have 30 days.
b) February is the shortest month with 28 days.
c) 7 months have 31 days.
d) In a leap year, February has 29 days.

CALENDAR

II. Look at the calendar and answer the following:

MONTH: DECEMBER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

a) On which day did the month begins?
   Ans: Sunday.

b) Which day is the last day of the month?

   Ans: Tuesday.

c) What day is the 15th of this month?
   Ans: Sunday .

d) When do we celebrate Christmas?
   Ans: 25th December.

e) How many Sundays are there in December?
   Ans: 5 Sundays.

Multiplication tables

0 – tables

0 X 0 = 0
0 X 1 = 0
0 X 2 = 0
0 X 3 = 0
0 X 4 = 0
0 X 5 = 0
0 X 6 = 0
0 X 7 = 0
0 X 8 = 0
0 X 9 = 0
0 X 10 = 0
0 X 11 = 0
0 X 12 = 0

1 – table

1 X 0 = 0
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
1 X 11 = 11
1 X 12 = 12

2 – table

2 X 0 = 0
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
2 X 11 = 22
2 X 12 = 24

3 – table

3 X 0 = 0
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
3 X 11 = 33
3 X 12 = 36

4 – table

4 X 0 = 0
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
4 X 11 = 44
4 X 12 = 48

5 – table

5 X 0 = 0
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
5 X 11 = 55
5 X 12 = 60

6 – table

6 X 0 = 0
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
6 X 11 = 66
6 X 12 = 72

10 – table

10 X 0 = 0
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
10 X 11 = 110
10 X 12 = 120

Find the product of the following :

a)

T	O
	3
	2
	6

X
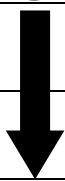
2 – tables

2 X 0 = 0
2 X 1 = 2
2 X 2 = 4
2 X 3 = 6

b)

T	O
1	
	9
	2
1	**8**

X

2 – tables
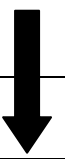
2 X 0 = 0
2 X 1 = 2
2 X 2 = 4
2 X 3 = 6
2 X 4 = 8
2 X 5 = 10
2 X 6 = 12
2 X 7 = 14
2 X 8 = 16
2 X 9 = 18

C)

T	O
4	
	8
	5
4	**0**

X

5 – tables

5 X 0 = 0
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

d)

T	O
2	**0**
	3
6	**0**

X

3 – tables

3 X 0 = 0
3 X 1 = 3
3 X 2 = 6

e)

T	O
1	**2**
	4
4	**8**

X

4 – tables

4 X 0 = 0
4 X 1 = 4
4 X 2 = 8

Numerals : 951 to 1000

951	961	971	981	991
952	962	972	982	992
953	963	973	983	993
954	964	974	984	994
955	965	975	985	995
956	966	976	986	996
957	967	977	987	997
958	968	978	988	998
959	969	979	989	999
960	970	980	990	1000

Write number names for the following numerals :

943 – Nine hundred forty three

960 – Nine hundred sixty

972 – Nine hundred seventy two

985 – Nine hundred eighty five

994 – Nine hundred ninety four

1000 – One thousand