

MATHS

NOTES

STD - II

Numerals : 301 – 350

301		311		321		331		341
302		312		322		332		342
303		313		323		333		343
304		314		324		334		344
305		315		325		335		345
306		316		326		336		346
307		317		327		337		347
308		318		328		338		348
309		319		329		339		349
310		320		330		340		350

Write number names for the following numerals:

101 – One hundred one

102 - One hundred two

103 – One hundred three

104 – One hundred four

105 – One hundred five

106 – One hundred six

107 – One hundred seven

108 – One hundred eight

109 – One hundred nine

110 – One 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 - eight

9th - ninth

10th - tenth

Numerals : 351 – 400

351		361		371		381		391
352		362		372		382		392
353		363		373		383		393
354		364		374		384		394
355		365		375		385		395
356		366		376		386		396
357		367		377		387		397
358		368		378		388		398
359		369		379		389		399
360		370		380		390		400

Write number names for the following numerals:

111 – One hundred eleven

112 – One hundred twelve

113 – One hundred thirteen

114 – One hundred fourteen

115 – One hundred fifteen

116 – One hundred sixteen

117 – One hundred seventeen

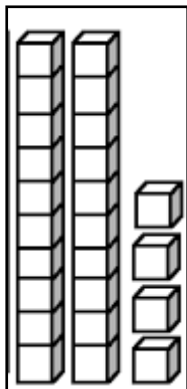
118 – One hundred eighteen

119 – One hundred nineteen

120 - One hundred twenty

CH - 4 : Counting in tens

I. Place value:



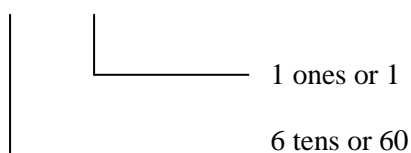
2 tens + 4 ones

$$20 + 4 = 24$$

II. Write the place Value of the digits :

T O

6 1



III. Write the numbers in expanded form:

1. $33 = 3 \text{ Tens} + 3 \text{ Ones} = 30 + 3$

2. $187 = 1 \text{ Hundred} + 8 \text{ Tens} + 7 \text{ Ones} = 100 + 80 + 7$

IV. Count the following in tens:

A visual representation of the equation 20 + 10 + 3 = 23. On the left, a rectangular box contains 20 stars arranged in two rows of ten. Below this box is the number '10'. To the right of this box is a plus sign. In the middle, another rectangular box contains 10 stars arranged in two rows of five. Below this box is the number '10'. To the right of this box is another plus sign. On the far right, three stars are arranged vertically. Below them is the number '3'. To the right of '3' is an equals sign, followed by the number '23'.
$$\underline{10} + \underline{10} + \underline{3} = \underline{23}$$

* There are 2 boxes of 10 stars each.

* Total stars = 23

CH: 10 – Add our points

I. Notes:

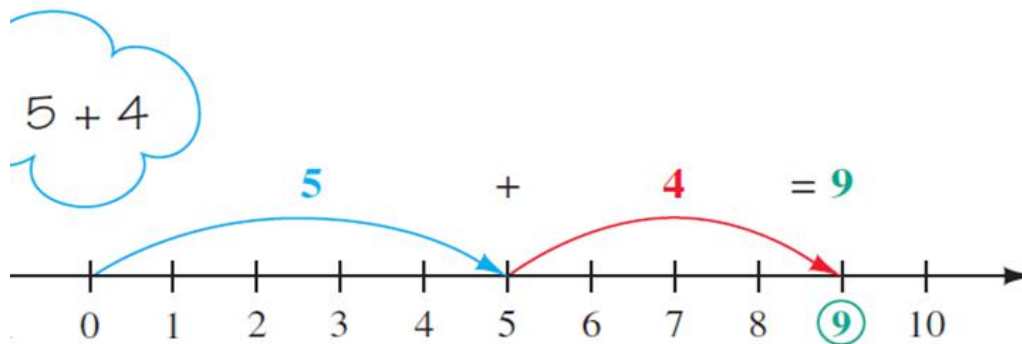
- When we put things together we ‘add’ them
- The answer is called the ‘sum’

$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \\ \hline \end{array}$$

Sum \longrightarrow

- 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 :



III. Add the following numbers (without regrouping):

a) $3 + 2 + 4$

	T	O
		3
		2
$\boxed{+}$		4
		<hr/>
		9
		<hr/>

b). $15 + 10$

	T	O
	1	5
	1	0
$\boxed{+}$		<hr/>
	2	5
		<hr/>

IV. Add the following numbers (with regrouping):

a) $5 + 3 + 6$

	T	O
	1	5
	↓	3
+	6	
	1	4

b) $23 + 7$

	T	O
	1	
	2	3
+		7
	3	0

VII. Word Problem :

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 11 mango trees and 19 banyan trees in an orchard. How many trees are there in the orchard?

		T	O	
		1		
Ans : Number of mango trees	=	1	1	
Number of banyan trees	=	1	9	
Total trees	=	+	3	0

10

NUMERALS 401-500

401		411		421		431		441
402		412		422		432		442
403		413		423		433		443
404		414		424		434		444
405		415		425		435		445
406		416		426		436		446
407		417		427		437		447
408		418		428		438		448
409		419		429		439		449
410		420		430		440		450

Write number names for the following numerals :

121 – One hundred twenty one

122 – One hundred twenty two

123 – One hundred twenty three

124 – One hundred twenty four

125 – One hundred twenty five

126 – One hundred twenty six

127 – One hundred twenty seven

128 – One hundred twenty eight

129 – One hundred twenty nine

130 – One hundred thirty

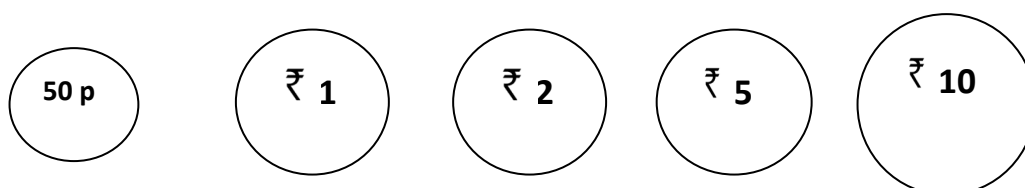
CH: 8 – Tens and ones

I. Note:

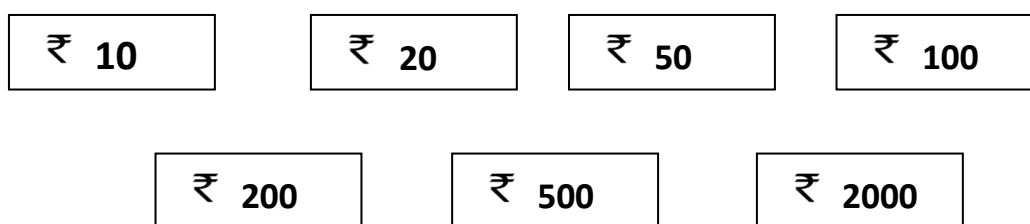
The symbol of Rupees - ₹

$$100 \text{ paise} = ₹ 1$$

Currency - Coins

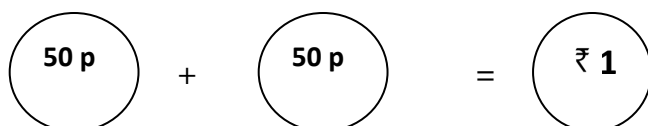


Currency - Notes

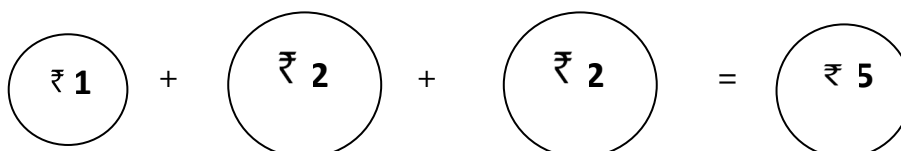


II. Money Exchange:

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



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



III. Fill in the blanks:

a). $30 + \underline{5} = 35$

c). $64 = \underline{60} + \underline{4}$

b). $\underline{10} + 9 = 19$

d). $\underline{99} = 90 + 9$

IV. Add:

a)

		₹	
		T	O
		1	
	4	5	
+	3	5	
	8	0	
			₹

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: $55 - 1 = 54$

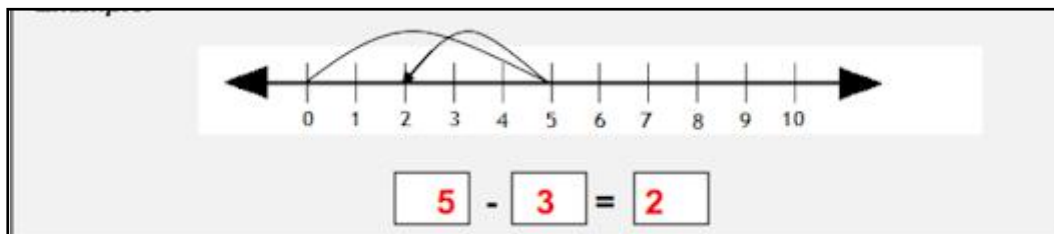
d) . Subtraction of the same number:

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

Example: $12 - 12 = 0$

II. Subtraction using number line:

a) $5 - 3$



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 4	6 16
- 3	8
0	8

 b)

T	O
8 9	2 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	=	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>-</td><td>1</td><td>2</td></tr> </table>	-	1	2	
-	1	2				
Number of birds left	=	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>1</td><td>3</td></tr> </table>	1	3		
1	3					

2) There are 65 trees in an orchard. Of which 37 are mango trees. How many are apple trees?

Ans:

	T	O				
Total number of trees	=	5	15			
Number of mango trees	=	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>6</td><td>5</td></tr> </table>	6	5		
6	5					
Number of apple trees	=	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>-</td><td>3</td><td>7</td></tr> </table>	-	3	7	
-	3	7				
		=	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>2</td><td>8</td></tr> </table>	2	8	
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
	1	0
		7
	0	3

Ch – 14 : Birds come, birds go

I. Connecting Addition and Subtraction:

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

$$12 - 4 = \underline{8}$$

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

$$19 - 7 = \underline{12}$$

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

$$20 - 14 = \underline{6}$$

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

$$18 - 9 = \underline{9}$$

II. Word problem :

a) A fruit basket contains apples and oranges. The total number of fruits in the basket is 50 . If 29 of them are apples , find the number of oranges?

Ans:

		T	O
		4	10
Total number of fruits	=	5	0
Number of apples	=	-	29
Number of oranges	=	2	1

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

Ans:

		₹	
		T	O
		7	10
Amount with Manoj	=	8	0
Cost of the shirt	=	-	42
Amount left with him	=	3	8

NUMERALS: 451 - 500

451		461		471		481		491
452		462		472		482		492
453		463		473		483		493
454		464		474		484		494
455		465		475		485		495
456		466		476		486		496
457		467		477		487		497
458		468		478		488		498
459		469		479		489		499
460		470		480		490		500

Write number names for the following numerals :

- 131 – One hundred thirty one
- 132 – One hundred thirty two
- 133 – One hundred thirty three
- 134 – One hundred thirty four
- 135 – One hundred thirty five
- 136 – One hundred thirty six
- 137 – One hundred thirty seven
- 138 – One hundred thirty eight
- 139 – One hundred thirty nine
- 140 - One hundred forty
- 141 – One hundred forty one
- 142 – One hundred forty two
- 143 – One hundred forty three
- 144 – One hundred forty four
- 145 – One hundred fortyfive
- 146 – One hundred forty six
- 147 – One hundred forty seven
- 148 – One hundred forty eight
- 149 – One hundred forty nine
- 150 – One hundred fifty

Ch - 15 : How many ponytails ?

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: 512 – 527

512	522
513	523
514	524
515	525
516	526
517	527
518	
519	
520	
521	

NUMERALS: 535 – 550

535	545
536	546
537	547
538	548
539	549
540	550
541	
542	
543	
544	

NUMERALS : 581 – 595

581	591
582	592
583	593
584	594
585	595
586	
587	
588	
589	
590	

Write number names for the following numerals :

152 – One hundred fifty two

153 – One hundred fifty three

154 – One hundred fifty four

155 – One hundred fifty five

156 – One hundred fifty six

157 – One hundred fifty seven

158 – One hundred fifty eight

159 – One hundred fifty nine

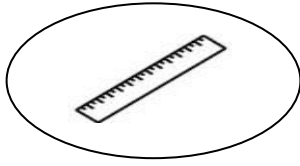
160 - One hundred sixty

161 - One hundred sixty one

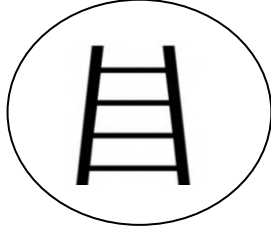
Ch – 13: The longest step

I. Circle the longest objects:

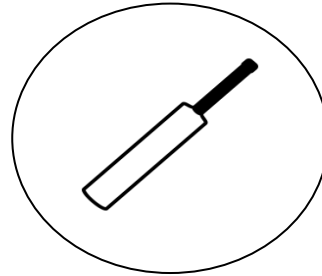
a)



b)



c)



II. Fill in the blanks :

a) My forehead is four fingers wide .

b) My nose is one finger long .

c) My hand is three handspan long .

d) My Maths book is three handspan long .

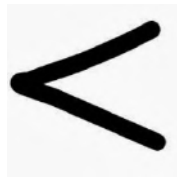
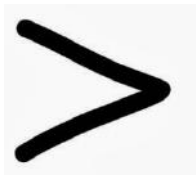
Ch – 3 How much can you carry ?

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)



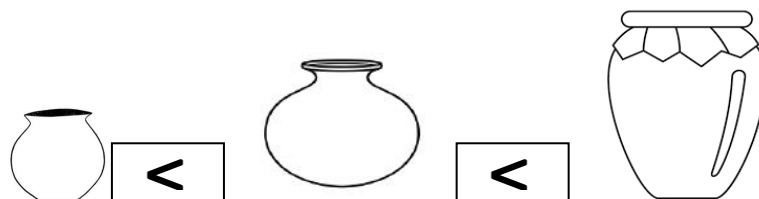
2)



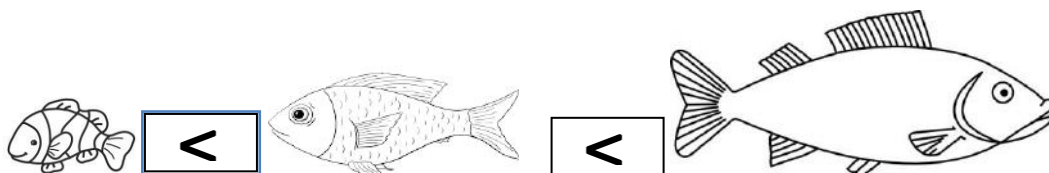
3)



4)



5)



Numerals : 634 – 648

634	642
635	643
636	644
637	645
638	646
639	647
640	648
641	

Numerals: 658 – 676

658	668
659	669
660	670
661	671
662	672
663	673
664	674
665	675
666	676
667	

Numerals : 686 – 700

686	694
687	695
688	696
689	697
690	698
691	699
692	700
693	

Write number names for the following numerals :

199 – One hundred ninety nine

200 - Two hundred

201 – Two hundred one

202 – Two hundred two

203 – Two hundred three

204 – Two hundred four

205 – Two hundred five

206 – Two hundred six

207 – Two hundred seven

208 – Two hundred eight

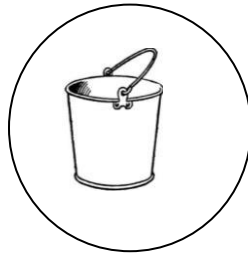
209 – Two hundred nine

210 – Two hundred ten

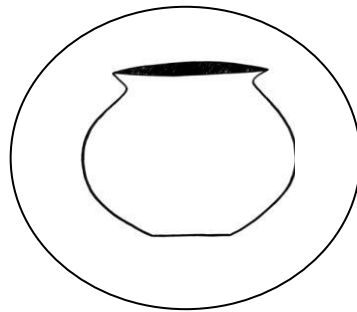
Ch – 7 : Jugs and mugs

I . Circle the vessel which holds more water:




a)



b)



II. How many glasses () 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

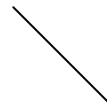
A straight line can be a standing line , sleeping line or a slanting line .



Standing line



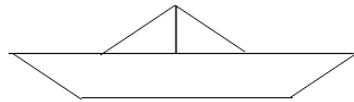
Sleeping line



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 : 705 – 719

705	713
706	714
707	715
708	716
709	717
710	718
711	719
712	

Numerals: 748 – 762

748	756
749	757
750	758
751	759
752	760
753	761
754	762
755	

Numerals : 786 – 800

786	794
787	795
788	796
789	797
790	798
791	799
792	800
793	

Write number names for the following numerals :

256 – Two hundred fifty six

257 – Two hundred fifty seven

258 – Two hundred fifty eight

259 – Two hundred fifty nine

260 – Two hundred sixty

261 – Two hundred sixty one

262 – Two hundred sixty two

263 – Two hundred sixty three

264 – Two hundred sixty four

265 – Two hundred sixty five

CH – 1 WHAT IS LONG, WHAT IS ROUND ?

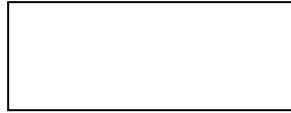
Square

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



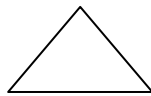
Rectangle

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



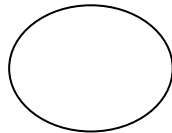
Triangle

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

Shapes that have flat surface can slide .Example : Ruler

Shapes that have curved surfaces can roll .Example : Pen

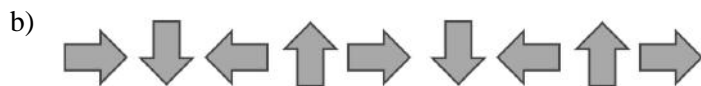
Object	Roll	Slide	Both
Dice 		✓	
Pencil box 		✓	
Coin 			✓
Ball 	✓		
Drum 			✓
Cone 			✓

CH : 5 & 6 – Patterns and Footprints

PATTERNS

Things that are arranged following a rule or rules.

I PATTERNS IN SHAPES:



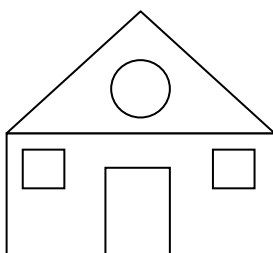
II PATTERN IN WORDS:

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

III Patterns in numbers :

- a) 2 , 4 , 6 , 8 , 10, 12
- b) 24 , 27 , 30 , 33 , 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 : 858 - 876

858	868
859	869
860	870
861	871
862	872
863	873
864	874
865	875
866	876
867	

Numerals: 886 - 900

886	894
887	895
888	896
889	897
890	898
891	899
892	900
893	

Write number names for the following numerals :

261 – Two hundred sixty one

262 – Two hundred sixty two

263 – Two hundred sixty three

264 – Two hundred sixty four

265 – Two hundred sixty five

266 – Two hundred sixty six

267 – Two hundred sixty seven

268 – Two hundred sixty eight

269 – Two hundred sixty nine

270 – Two hundred seventy

CH – 9 My funday

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:

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 begin ?
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

$0 \times 0 = 0$
 $0 \times 1 = 0$
 $0 \times 2 = 0$
 $0 \times 3 = 0$
 $0 \times 4 = 0$
 $0 \times 5 = 0$
 $0 \times 6 = 0$
 $0 \times 7 = 0$
 $0 \times 8 = 0$
 $0 \times 9 = 0$
 $0 \times 10 = 0$
 $0 \times 11 = 0$
 $0 \times 12 = 0$

1 – tables

$1 \times 0 = 0$
 $1 \times 1 = 1$
 $1 \times 2 = 2$
 $1 \times 3 = 3$
 $1 \times 4 = 4$
 $1 \times 5 = 5$
 $1 \times 6 = 6$
 $1 \times 7 = 7$
 $1 \times 8 = 8$
 $1 \times 9 = 9$
 $1 \times 10 = 10$
 $1 \times 11 = 11$
 $1 \times 12 = 12$

2 – tables

$2 \times 0 = 0$
 $2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$
 $2 \times 11 = 22$
 $2 \times 12 = 24$

3 – tables

$3 \times 0 = 0$
 $3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$
 $3 \times 11 = 33$
 $3 \times 12 = 36$

4 – tables

$4 \times 0 = 0$
 $4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$
 $4 \times 11 = 44$
 $4 \times 12 = 48$

5 – tables

$5 \times 0 = 0$
 $5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$
 $5 \times 11 = 55$
 $5 \times 12 = 60$

6 – tables

$6 \times 0 = 0$
 $6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$
 $6 \times 11 = 66$
 $6 \times 12 = 72$

10 – tables

$10 \times 0 = 0$
 $10 \times 1 = 10$
 $10 \times 2 = 20$
 $10 \times 3 = 30$
 $10 \times 4 = 40$
 $10 \times 5 = 50$
 $10 \times 6 = 60$
 $10 \times 7 = 70$
 $10 \times 8 = 80$
 $10 \times 9 = 90$
 $10 \times 10 = 100$
 $10 \times 11 = 110$
 $10 \times 12 = 120$

Numerals : 911 – 925

911	919
912	920
913	921
914	922
915	923
916	924
917	925
918	

Numerals: 951 – 965

951	959
952	960
953	961
954	962
955	963
956	964
957	965
958	

Numerals : 986 – 1000

986	994
987	995
988	996
989	997
990	998
991	999
992	1000
993	

Write number names for the following numerals :

284 – Two hundred eighty four

287 – Two hundred eighty seven

293 – Two hundred ninety three

299 – Two hundred ninety nine

300 – Three hundred