

Sub:- Maths

Class:- 3

Chapter:- 3 [Part:-1]

Subtraction and four digit Number

Subtraction is a way of taking away a number of things from a larger group.

The symbol of subtraction is '-'. It is called the 'minus' sign.

$18 - 15 = 3$ is a subtraction fact.
We read it as, "15 subtracted from 18 is 3".

$$\begin{array}{r} 18 \\ - 15 \\ \hline 03 \end{array}$$

← Minuend
← subtrahend
← difference

The number which is to be subtracted is called "subtrahend" and the number from which subtrahend is subtracted is called "minuend". The Answer is called "difference".

Exercise Time

Subtract :-

a. $45 - 14 = \square$

b. $21 - 20 = \square$

c. $60 - 40 = \square$

d. $86 - 76 = \square$

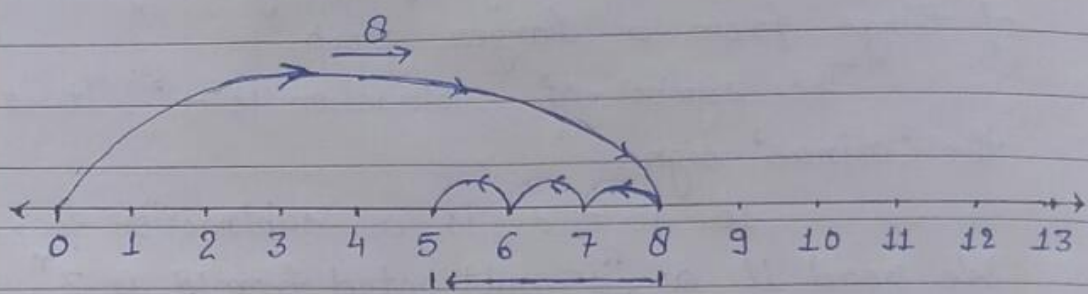
e. $16 - 14 = \square$

f. $65 - 54 = \square$

Subtraction On Number line :-

Subtract 3 from 8.

On the number line, first mark 8 starting from 0. Then count 3 steps backward. We reach the number 5.



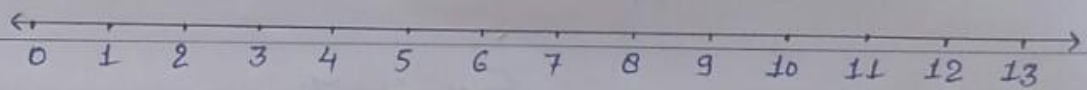
Hence,

$$8 - 3 = 5$$

Exercise Time

Subtract with the help of number line,

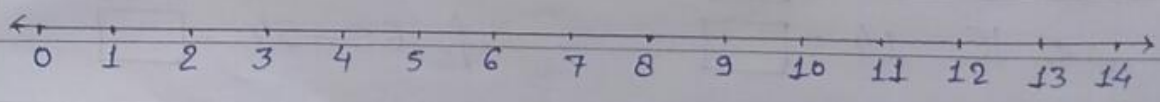
(a)



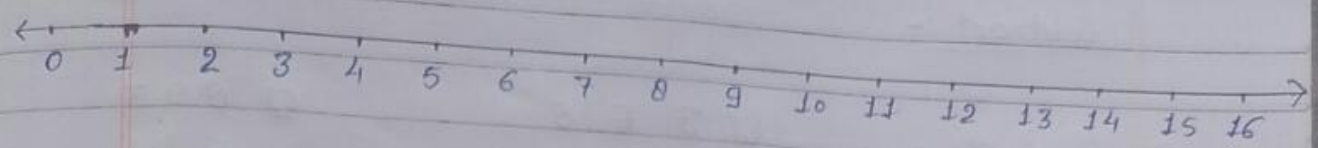
$$9 - 5 = \square$$

(b)

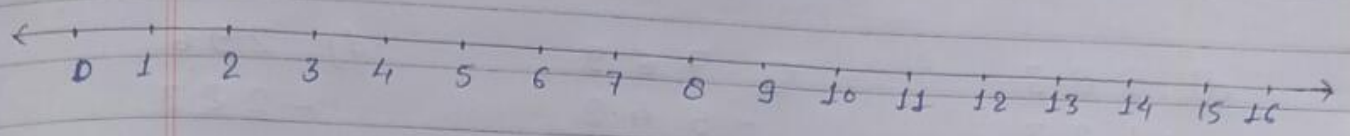
$$14 - 3 = \square$$



(c) $15 - 5 = \square$



(d) $15 - 4 = \square$



∴ Properties of Subtraction :-

Property 1 :- The difference of a number and zero (0) is always the number itself.

- a) $15 - 0 = 15$
- b) $71 - 0 = 71$

Property 2 :- The difference of a number from itself is always zero.

- a) $7 - 7 = 0$
- b) $14 - 14 = 0$

∴ Subtraction of 3-digit Numbers :- [Without Borrowing]

$417 - 215 = \boxed{202}$

Subtract these numbers :-

H	T	O
4	1	7
-	2	1
		5
		2

Subtracting ones
 $7 - 5 = 2$

H	T	O
4	1	7
-	2	1
		5
		0
		2

Subtracting tens
 $1 - 1 = 0$

H	T	O
4	1	7
-	2	1
		5
2	0	2

Subtracting hundreds
 $4 - 2 = 2$

Exercise Time

Subtract :-

$$\begin{array}{r} \text{a)} \quad 524 \\ - 423 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 368 \\ - 243 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 893 \\ - 621 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad 583 \\ - 123 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e)} \quad 769 \\ - 542 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f)} \quad 296 \\ - 223 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g)} \quad 464 \\ - 313 \\ \hline \end{array}$$

$$\begin{array}{r} \text{h)} \quad 363 \\ - 142 \\ \hline \end{array}$$

$$\begin{array}{r} \text{i)} \quad 463 \\ - 442 \\ \hline \end{array}$$

$$\begin{array}{r} \text{j)} \quad 366 \\ - 162 \\ \hline \end{array}$$

$$\begin{array}{r} \text{k)} \quad 476 \\ - 324 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l)} \quad 484 \\ - 344 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m)} \quad 266 \\ - 122 \\ \hline \end{array}$$

$$\begin{array}{r} \text{n)} \quad 404 \\ - 302 \\ \hline \end{array}$$

$$\begin{array}{r} \text{o)} \quad 284 \\ - 104 \\ \hline \end{array}$$

Subtraction in Expanded form :-

Subtract 235 from 437.

Solution :-

$$\begin{array}{r} 437 \rightarrow 4 \text{ hundreds} + 3 \text{ tens} + 7 \text{ ones} \rightarrow 400 + 30 + 7 \\ - 235 \rightarrow 2 \text{ hundreds} + 3 \text{ tens} + 5 \text{ ones} \rightarrow 200 + 30 + 5 \\ \hline 202 \quad 2 \text{ hundreds} + 0 \text{ tens} + 2 \text{ ones} \rightarrow 200 + 0 + 2 \\ = 202 \end{array}$$

Exercise Time

Fill in the blanks :-

$$\begin{array}{r}
 (a) \quad 467 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 - \quad 252 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 \hline
 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 = \square \qquad \qquad \qquad = \square
 \end{array}$$

$$\begin{array}{r}
 (b) \quad 548 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 - \quad 317 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 \hline
 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 = \square \qquad \qquad \qquad = \square
 \end{array}$$

$$\begin{array}{r}
 (c) \quad 792 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 - \quad 242 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 \hline
 \rightarrow \square \text{ hundreds} + \square \text{ tens} + \square \text{ ones} \rightarrow \square + \square + \square \\
 = \square \qquad \qquad \qquad = \square
 \end{array}$$

∴ Subtraction of 2-digit Numbers :-
 (By decomposing)

Subtract [52 - 17]
 17 from 52.

Note :- Decomposing is the
 another name of
 borrowing.

Solve :- $52 - 17$

lets decompose

T	O
5	2
- 1	7
<hr/>	

1 ten to ones

T	O
4	12
5	2
- 1	7
<hr/>	
	5

T	O
4	
5	2
- 1	7
<hr/>	
3	5

Start with the ones

2-7 cannot be done.

We must decompose

Decompose 1 ten to
ones. $10 + 2 = 12$ ones

$$5 - 1 = 4 \text{ tens}$$

$$12 - 7 = 5$$

Write 5 under ones column.

Now subtract the
tens. $4 - 1 = 3$ tens.

Write 3 under the
column.

$$\therefore 52 - 17 = 35$$

Exercise Time

Subtract :-

a)
$$\begin{array}{r} 32 \\ - 16 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 96 \\ - 28 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 87 \\ - 28 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 62 \\ - 28 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 44 \\ - 27 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 76 \\ - 38 \\ \hline \end{array}$$

Word Problems :-

1. Dinesh's comic book has 86 pages. He has read 69 pages. How many pages he still has to read?
2. On a tree there were 482 mangoes. If 298 were ripe, how many were raw?
3. Ramesh has 40 bicycles and 28 tricycles in his shop. How many more bicycles than tricycles in the shop?
4. A fruitseller bought a box containing 90 oranges. 23 oranges were found rotten. How many were good oranges?
5. Ria got 96 marks in English and 69 marks in Computer. How many more marks did she get in English?