

Girls' High School & College, Prayagraj

Worksheet No.6

Session - 2020-2021

Class - 3 (A-F)

Subject – Mathematics

Chapter- 3 – Subtraction

Instruction:- Parents are expected to ensure that the child first revises subtraction done in class 2 and then solves this worksheet.

Taking away some number or an object from a group is called **subtraction**.

When we talk of numbers, subtraction is taking away a smaller number from a bigger number.

The number from which we subtract is the minuend.

The number that is subtracted is the subtrahend.

The result of the subtraction is called the difference.

$$\begin{array}{r} 8888 \leftarrow \text{Minuend} \\ - 2222 \leftarrow \text{Subtrahend} \\ \hline 6666 \leftarrow \text{Difference} \end{array}$$

Subtraction of 3-digit numbers (without borrowing)

Let us subtract 145 from 957.

STEP 1: Read ones column. $7 - 5$
 $7 - 5 = 2$. We write 2 in ones column.

STEP 2: Read tens column. $5 - 4$
 $5 - 4 = 1$. We write 1 in tens column.

STEP 3: Read hundreds column. $9 - 1$
 $9 - 1 = 8$. We write 8 in hundreds column.

	H	T	O
	9	5	7
-	1	4	5
	8	1	2

Subtraction of 3-digit numbers (with borrowing)

Let us subtract 375 from 529

	H	T	O
	4	12	
	5	2	9
-	3	7	5
	1	5	4

STEP 1: Read ones column. $9 - 5$.
 $9 - 5 = 4$. We write 4 in ones column.

STEP 2: Read ~~tens~~ column. $2 - 7$.
But $7 > 2$. So 7 cannot be subtracted from 2.
We borrow 1 hundred from hundreds place.
Now 1 hundred + 2 tens = 12 tens.
We cross out 2 and write 12.
Also we cross out 5 and write 4.
Now, $12 - 7 = 5$. We write 5 in tens column

STEP 3: Read hundreds column. $4 - 3$
 $4 - 3 = 1$. We write 1 in hundreds column.

Subtraction of 4-digit numbers (without borrowing)

Let us subtract 3542 from 4856

	Th	H	T	O
	4	8	5	6
-	3	5	4	2
	1	3	1	4

Subtract ones. = $6 - 2 = 4$ ones.

Subtract tens. = $5 - 4 = 1$ ten.

Subtract hundreds. = $8 - 5 = 3$ hundreds.

Subtract thousands. = $4 - 3 = 1$ thousand.

The difference = 1314

Subtraction of 4-digit numbers(with borrowing)

Let us subtract 4705 from 8132

	Th	H	T	O
	7	11	2	12
	8	1	3	2
-	4	7	0	5
	3	4	2	7

STEP 1: 5 ones cannot be subtracted from 2 ones, so we borrow 1 ten from 3 tens. We cross out 3 and write 2. Also we cross out 2 and write 12.

$$12 \text{ ones} - 5 \text{ ones} = 7 \text{ ones}$$

We write 7 in ones column.

$$\text{STEP 2: } 2 \text{ tens} - 0 \text{ tens} = 2 \text{ tens}$$

We write 2 in tens column

STEP 3: 7 hundreds cannot be subtracted from 1 hundred, so we borrow 1 thousand from 8 thousands, we cross out 8 and write 7. Also we cross out 1 and write 11.

$$11 \text{ hundreds} - 7 \text{ hundreds} = 4 \text{ hundreds}$$

We write 4 in hundreds column.

$$\text{STEP 4: } 7 \text{ thousands} - 4 \text{ thousands} = 3 \text{ thousands.}$$

We write 3 in thousands column.

Subtraction stories

Many situations around us involve subtraction of numbers. Such situations are called subtraction stories.

EXAMPLE 2462 children were attending a camp. After one week 1231 children left the camp. How many children are there in the camp now?

SOLUTION:

	Th	H	T	O
Number of children in the camp	2	4	6	2
Number of children who left the camp	-	1	2	3
Difference =	1	2	3	1

Ans. 1231 children are left in the camp.

Properties of subtraction

Property 1: When we subtract 0 from a number, the difference is the number itself.

Let A be any number, then **$A - 0 = A$**

Let us subtract 0 from 4536

$$4536 - 0 = 4536$$

We get back the same number 4536

Property 2: When a number is subtracted from the same number, the difference is 0. (Zero)

Let A be any number, then **$A - A = 0$**

Let us subtract 5234 from 5234

$$5234 - 5234 = 0$$

We get zero (0)

Addition and subtraction together

Example – simplify: $2439 - 1056 + 555$

Solution: First number has no sign before it . It is taken as '+'.
 $2439 + 555 - 1056$

Add the numbers with plus sign and then subtract the number with minus sign.

$$\begin{array}{r} 2439 \\ + 555 \\ \hline 2994 \end{array}$$

$$\begin{array}{r} 2994 \\ - 1056 \\ \hline 1938 \end{array}$$

Ans. 1938.

Exercise

(Q1) Subtract the following (without borrowing)

(a)

H	T	O
5	6	8
-	1	2
		5
<hr/>		
<hr/>		

(b)

H	T	O
8	9	7
-	2	7
		2
<hr/>		
<hr/>		

(c)

H	T	O
9	4	5
-	4	0
		3
<hr/>		
<hr/>		

(d)

H	T	O
6	9	7
-	5	2
		6
<hr/>		
<hr/>		

(Q2) Subtract the following (with borrowing)

(a)

H	T	O
○	○	
6	5	3
-	2	1
		7
<hr/>		
<hr/>		

(b)

H	T	O
○	○	
5	6	8
-	3	5
		9
<hr/>		
<hr/>		

(c)

H	T	O
○	○	
7	8	0
-	3	7
		2
<hr/>		
<hr/>		

(d)

H	T	O
○	○	
9	6	1
-	2	4
		4
<hr/>		
<hr/>		

(Q3) Subtract the following (without borrowing)

(a)

Th	H	T	O
7	8	4	6
-	3	5	0
			4
<hr/>			
<hr/>			

(b)

Th	H	T	O
8	7	6	7
-	3	2	3
			1
<hr/>			
<hr/>			

(c)

Th	H	T	O
7	5	9	4
-	3	5	7
			0
<hr/>			
<hr/>			

(Q4) Subtract the following (with borrowing)

(a)

	Th	H	T	O
	6	8	2	2
-	2	5	3	6
<hr/>				
<hr/>				

(b)

	Th	H	T	O
	8	1	5	4
-	2	5	1	9
<hr/>				
<hr/>				

(c)

	Th	H	T	O
	5	8	7	2
-	3	5	6	8
<hr/>				
<hr/>				

(Q5) Fill in the blanks.

- _____ - 0 = 2106
- 4119 - _____ = 4119
- 6340 - 6340 = _____
- _____ - 5214 = 0
- 5236 - _____ = 0

(Q6) Simplify-

- 2140 + 7018 - 3156
- 4901 - 2234 + 4415
- 6582 - 2375 + 2180

(Q7) Solve the following word problems:

- There are 3435 males and 2312 females in a small town. How many more males than females does the town have?
- A box has 4926 apples. 1028 of these are rotten. Find the number of good apples.
- In a stadium there are 4500 seats. On a particular day, 3392 persons saw the match. How many seats were vacant?

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