

A. Subtraction

In previous classes we have learnt subtraction involving 1-digit, 2-digit and 3-digit numbers. Let us now learn subtraction of 4-digit numbers.

Subtraction of a 3-digit Number from a 3-digit Number (without regrouping)

Example

Subtract 217 from 428.

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

METHOD :

Step 1 : Write the numbers as shown alongside.

Step 2 : First, subtract ones.

8 ones - 7 ones = 1 one.

Write 1 under ones column as shown.

Step 3 : Second, subtract tens.

2 tens - 1 ten = 1 ten.

Write 1 under tens column as shown.

Step 4 : Finally subtract hundreds.

4 hundreds - 2 hundreds = 2 hundreds.

Write 2 under hundreds column as shown.

Ans. 211

Exercise 4(A)

A. Subtract.

1

H	T	O			
3	4	9			
-	1	2	3		
			2	2	6

2

H	T	O			
3	1	2			
-	3	1	2		
			0	0	0

3

H	T	O			
9	8	4			
-	3	7	2		
			6	1	2

4

H	T	O			
9	4	3			
-	8	2	1		
			1	2	2

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3	4	9		
-	1	2	3	
2			2	6

2

H	T	O		
3	1	2		
-	3	1	2	
0			0	0

3

H	T	O		
9	8	4		
-	3	7	2	
6			1	2

4

H	T	O		
9	4	3		
-	8	2	1	
1			2	2

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Subtraction of a 3-digit Number from another 3-digit Number (with regrouping)

Example 1

Subtract 416 from 925.

METHOD :

Step 1 : Write the numbers as shown.

Step 2 : Subtract 6 ones from 5 ones, but 5 is less than 6. So we will borrow 1 ten from the tens digit 2. So, 5 ones become 15 ones and 2 tens become 1 ten.

Step 3 : Subtract 6 ones from 15 ones.

15 ones - 6 ones = 9 ones.

	H	T	O
	9	2	5
-	4	1	6

1 15
~~9~~ ~~2~~ ~~5~~

Example 2

Subtract 289 from 478.

H	T	O
3	8 ¹⁶	18
4	7	8
-	2	8 9
1 8 9		

METHOD :

- Step 1 :** Write the numbers as shown.
- Step 2 :** Subtract 9 ones from 8 ones, but 8 is less than 9. So we will borrow 1 ten from 7 tens. So, 8 ones will become 18 ones and 7 tens will become 6 tens.
- Step 3 :** Subtract 9 ones from 18 ones.
18 ones - 9 ones = 9 ones.
Write 9 under ones column as shown.
- Step 4 :** Subtract 8 tens from 6 tens, but 6 is less than 8. So borrow 1 hundred from hundreds place. 6 tens will become 16 tens and 4 hundreds will become 3 hundreds.
16 tens - 8 tens = 8 tens.
Write 8 under tens column as shown.
- Step 5 :** Subtract 2 hundreds from 3 hundreds.
3 hundreds - 2 hundreds = 1 hundred
Write 1 under hundreds column as shown.
- Ans. 189

Exercise 4(B)

Subtract the following.

1

H	T	O
2	1	7
-	1	0 8
109		

2

H	T	O
2	0 ¹	2 4
-	1	3 5
089		

3

H	T	O
4	5	1
-	1	5 2
299		

4

H	T	O
8	4	5
-	4	2 9
416		

5

H	T	O
3	8	8
-	1	9 9
189		

6

H	T	O
2	4	8
-	1	4 9
099		

7

H	T	O
3	7	2
-	1	8 6
186		

8

H	T	O
8	9	1
-	6	4 3
248		

classmate

Write 3 example from Handwritten

9

H	T	O	
8	3	5	
-	4	8	4
351			

10

H	T	O	
5	8	6	
-	4	9	7
89			

11

H	T	O	
9	7	6	
-	3	8	4
592			

12

H	T	O	
7	3	6	
-	4	5	9
277			

13

H	T	O	
6	7	5	
-	2	9	6
379			

14

H	T	O	
2	3	5	
-	1	8	9
46			

15

H	T	O	
8	7	13	
-	8	5	4
019			

16

H	T	O	
9	2	3	
-	7	4	9
174			

Subtraction of 4-digit Numbers (without regrouping)

Example

Subtract 4200 from 9361.

Th	H	T	O	
9	3	6	1	
-	4	2	0	0
5161				

METHOD :

Step 1 : Subtract the ones and write the difference under ones column.

$$1 \text{ one} - 0 \text{ ones} = 1 \text{ one.}$$

Step 2 : Subtract the tens and write the difference under tens column.

$$6 \text{ tens} - 0 \text{ tens} = 6 \text{ tens.}$$

Step 3 : Subtract the hundreds and write the difference under hundreds column.

$$3 \text{ hundreds} - 2 \text{ hundreds} = 1 \text{ hundred}$$

Step 4 : Subtract the thousands and write the difference under thousands column.

$$9 \text{ thousands} - 4 \text{ thousands} = 5 \text{ thousands}$$

Ans. 5161

$$\begin{array}{r} 675 \\ - 296 \\ \hline 379 \end{array}$$

$$\begin{array}{r} 235 \\ - 189 \\ \hline 46 \end{array}$$

$$\begin{array}{r} 87\overset{13}{3} \\ - 854 \\ \hline 019 \end{array}$$

$$\begin{array}{r} 923 \\ - 749 \\ \hline 174 \end{array}$$

Subtraction of 4-digit Numbers (without regrouping)

Example

Subtract 4200 from 9361.

METHOD :

Step 1 : Subtract the ones and write the difference under ones column.

$$1 \text{ one} - 0 \text{ ones} = 1 \text{ one.}$$

Step 2 : Subtract the tens and write the difference under tens column.

$$6 \text{ tens} - 0 \text{ tens} = 6 \text{ tens.}$$

Step 3 : Subtract the hundreds and write the difference under hundreds column.

$$3 \text{ hundreds} - 2 \text{ hundreds} = 1 \text{ hundred}$$

Step 4 : Subtract the thousands and write the difference under thousands column.

$$9 \text{ thousands} - 4 \text{ thousands} = 5 \text{ thousands}$$

Ans. 5161

Th	H	T	O
9	3	6	1
-	4	2	0
5	1	6	1

Exercise 4(C)

A. Subtract the following numbers.

Th	H	T	O
4	7	6	5
-	1	5	2
3	2	4	2

Th	H	T	O
5	9	3	7
-	4	1	0
1	8	3	3

Th	H	T	O
6	3	8	2
-	2	0	3
4	3	5	0

Th	H	T	O
3	5	4	1
-	1	0	2
2	5	2	0

Th	H	T	O
9	4	7	3
-	3	1	0
6	3	7	2