# **Subtraction of Integers**

## A. Choose the Correct Answer:

1. What is the value of (–6) – (–3)?		
a) —9	b) –3	
c) —1	d) –6	
2. Which of the following gives the smallest result?		
a) (–2) – (+5)	b) (+2) – (–5)	
c) (–2) – (–5)	d) (+5) – (–2)	
3. What is the result of (–4) – (+7)?		
a) +3	b) –11	
c) —3	d) +11	
4. The value of (+10) – (–5) is:		
a) +5	b) –15	
c) +15	d) –5	
5. If you subtract −8 from −3, what do you get?		
a) —11	b) +5	
c) —5	d) +11	

## **B.** Write the Missing Terms to Complete the Sentences:

- 1. (-10) (-5) = \_\_\_\_\_
- 2. Subtracting a negative integer is same as \_\_\_\_\_ a positive integer.
- 3. (+7) (–3) = \_\_\_\_\_
- 4. When a larger number is subtracted from a smaller number, the result is a \_\_\_\_\_\_ integer.
- 5. (-6) (+2) = \_\_\_\_\_

### C. Figure out the answers to these questions:

- 1. Use a number line to solve: (+3) (+5)
- 2. Find the value: (-12) (-4)
- 3. Reena had ₹8. She spent ₹12. Represent this using integers and find how much money she has now.
- 4. Evaluate: (−9) − (+6)
- 5. Find the result when -15 is subtracted from +6.

- 6. Write two real-life examples of situations that involve subtraction of integers.
- 7. If the temperature was -4°C in the morning and it decreased by 5°C, what is the new temperature?
- 8. Find the value of the expression: (-5) (-8) (+3)

## **D.** Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. Subtracting a positive integer means moving right on the number line.
- 2. (-3) (-3) is equal to zero.
- 3. Subtracting zero from any integer changes its value.
- 4. Subtracting a negative number gives a higher value.
- 5. (+5) (+8) results in a negative integer.

## E. Challenge yourself with these questions:

1. A submarine is at -20 meters. It dives 15 meters deeper. Represent the situation using integers and find the new depth.

- 2. **Solve:** (-7) (+5)
- 3. A hiker is at an altitude of 100 m. He descends to -50 m. What is the total change in his height?
- 4. Fill in the blank to make the statement true:  $(-3) \_\_\_= -10$
- 5. On a number line, show the result of (+6) (-2)

#### F. Arrange the following in ascending order:

1. –12, –6, 7, 5, 0, –9	2. –8, 5, –2, +2, 0, 7
3. –19, 15, 10, –7, 8, 1, –2	4. –10, 6, –1, 3, –5, 7

### G. Arrange the following in descending order.

1. –2, 5, –1, 0, 8	2. 7, -3, -4, + 0, 4, -10
3. –10, 6, –2, 4, –6, 8	4. –15, 10, 8, –7, 0, 3