

Worksheet – Set 1

Chapter 10: The Other Side of Zero | Integers

Name: _____

Class: _____

Section: _____

Date: _____

Roll No.: _____

Marks (out of 55): _____

Instructions: Attempt all questions. Write '+' or '-' sign with every non-zero integer answer. Show your working in the space given.

Section A: Fill in the blanks (10 × 1 = 10 marks)

- Numbers that are less than zero are called _____ numbers.
- Positive numbers, negative numbers and zero together are called _____.
- Zero is neither positive nor _____.
- The additive inverse of +9 is _____.
- $(-6) + (+6) =$ _____.
- On a number line, negative numbers lie to the _____ of zero.
- $(+7) + (-10) =$ _____.
- Water freezes at a temperature of _____ °C.
- Heights above sea level are shown by _____ numbers.
- $(-4) - (-9) =$ _____.

Section B: Multiple Choice Questions – tick the correct option (10 × 1 = 10 marks)

- Which of the following is a negative integer?
 (a) +3 (b) 0
 (c) -8 (d) 12
- The additive inverse of -15 is:
 (a) -15 (b) 15
 (c) 0 (d) 1/15
- $(+8) + (-5) =$
 (a) +13 (b) -3
 (c) +3 (d) -13
- Which of these integers is the greatest?
 (a) -7 (b) -2
 (c) -11 (d) -9
- In a lift, pressing the '-' button 4 times is written as:
 (a) +4 (b) -4
 (c) 4 (d) 0
- $(-3) - (+5) =$
 (a) +2 (b) -2
 (c) -8 (d) +8

7. Which is the smallest integer among 0, -1, -10 and 5?
 (a) 0 (b) -1
 (c) -10 (d) 5
8. A lift is at Floor +3 and you press -5. Which floor will you reach?
 (a) +2 (b) -2
 (c) +8 (d) -8
9. The value of $0 - (-6)$ is:
 (a) -6 (b) 0
 (c) 6 (d) 12
10. Who gave clear rules for operating on positive numbers, negative numbers and zero in 628 CE?
 (a) Aryabhata (b) Brahmagupta
 (c) Kautilya (d) Carnot

Section C: True or False ($10 \times 1 = 10$ marks)

1. Zero is a positive integer. (True / False): _____
2. $-5 < -2$. (True / False): _____
3. The additive inverse of 0 is 0. (True / False): _____
4. $(+4) - (-4) = 0$. (True / False): _____
5. Every negative number is less than every positive number. (True / False): _____
6. On the number line, -9 lies to the right of -3. (True / False): _____
7. $(-7) + (-3) = -10$. (True / False): _____
8. In Bela's Building of Fun, the ground floor is Floor 0. (True / False): _____
9. $5 - 8 = 3$. (True / False): _____
10. Subtracting a negative number is the same as adding the corresponding positive number. (True / False): _____

Section D: Match the following ($5 \times 1 = 5$ marks)

No.	Column A		Column B	Answer
1.	Additive inverse of +12	a.	+4	
2.	$(-5) + (+9)$	b.	0°C	
3.	Freezing point of water	c.	-7	
4.	$(+2) - (+9)$	d.	-1	
5.	The greatest negative integer	e.	-12	

Section E: Solve the following ($10 \times 2 = 20$ marks)

1. $(+5) + (+9)$

2. $(-7) + (-8)$

3. $(+12) + (-20)$

4. $(-15) + (+6)$

5. $(+9) - (+14)$

6. $(-4) - (-10)$

7. $(+6) - (-11)$

8. $(-9) - (+3)$

9. Write all the integers between -5 and 3 in increasing order.

10. Arrange in ascending order: $4, -7, 0, -2, 9$.

ANSWER KEY – Worksheet Set 1**Section A: Fill in the blanks**

1.	negative	2.	integers
3.	negative	4.	-9
5.	0	6.	left
7.	-3	8.	0
9.	positive	10.	+5

Section B: Multiple Choice Questions

1.	(c) -8	2.	(b) 15
3.	(c) +3	4.	(b) -2
5.	(b) -4	6.	(c) -8
7.	(c) -10	8.	(b) -2
9.	(c) 6	10.	(b) Brahmagupta

Section C: True or False

1.	False	2.	True
3.	True	4.	False
5.	True	6.	False
7.	True	8.	True
9.	False	10.	True

Section D: Match the following

1 → e 2 → a 3 → b 4 → c 5 → d

Section E: Solve the following

- $(+5) + (+9) = +14$
- $(-7) + (-8) = -15$
- $(+12) + (-20) = -8$
- $(-15) + (+6) = -9$
- $(+9) - (+14) = (+9) + (-14) = -5$
- $(-4) - (-10) = (-4) + (+10) = +6$
- $(+6) - (-11) = (+6) + (+11) = +17$
- $(-9) - (+3) = (-9) + (-3) = -12$
- 4, -3, -2, -1, 0, 1, 2
- $-7 < -2 < 0 < 4 < 9$