Worksheet 3: Subtraction of Integers

Class 6 | Ganita Prakash

Name: _____	**Class:** _____	**Section:** _____
Date: _____	**Maximum Marks:** 50	

Key Ideas to Remember

- Target Floor − Starting Floor = Movement needed. Example: (+5) − (+2) = +3
- To subtract an integer, add its additive inverse: a − b = a + (−b). Example: (+7) − (−3) = (+7) + (+3) = +10
- Subtracting a positive integer is the same as adding a negative integer. Example: (+2) − (+5) = (+2) + (−5) = −3
- Subtracting a negative integer is the same as adding the corresponding positive integer.

A. Fill in the Blanks [10 × 1 = 10 marks]

Write the correct answer in the blank.

1. (+9) − (+4) = _____

2. (+3) − (+8) = _____

3. (−6) − (−2) = _____

4. (−5) − (−9) = _____

5. (+7) − (−5) = _____

6. (−4) − (+6) = _____

7. 0 − (+7) = _____

8. 0 − (−10) = _____

9. (−8) − (−8) = _____

10. To subtract an integer, we add its _____.

B. Multiple Choice Questions [10 × 1 = 10 marks]

Choose the correct option.

1. (+12) − (+5) = ?
(a) +17 (b) −7 (c) +7 (d) −17

2. (−7) − (−3) = ?
(a) −10 (b) −4 (c) +4 (d) +10

3. (+4) − (+11) = ?
(a) +7 (b) −7 (c) +15 (d) −15

4. (−6) − (+9) = ?
(a) +3 (b) −3 (c) +15 (d) −15

5. (+5) − (−8) = ?
(a) −3 (b) +3 (c) −13 (d) +13

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6. (−10) − (−10) = ?
(a) −20 (b) 0 (c) +20 (d) −1

7. (+7) − (−4) is the same as
(a) (+7) + (−4) (b) (+7) + (+4) (c) (−7) + (+4) (d) (−7) + (−4)

8. A lift is on Floor +3 and must reach Floor −2. The button press needed is
(a) +5 (b) −5 (c) +1 (d) −1

9. Which expression has the smallest value?
(a) (+3) − (+9) (b) (−3) − (−9) (c) (+3) − (−9) (d) (−3) − (+9)

10. 0 − (−15) = ?
(a) −15 (b) 0 (c) +15 (d) −30

C. True or False [5 × 1 = 5 marks]

Circle True or False.

1. (+8) − (+3) = +5 **True / False**

2. (−4) − (−4) = −8 **True / False**

3. Subtracting a negative integer is the same as adding the corresponding positive integer. **True / False**

4. (+2) − (+9) = +7 **True / False**

5. The difference of two integers is always smaller than the first integer. **True / False**

D. Match the Following [5 × 1 = 5 marks]

Match each difference in Column A with its value in Column B. Write the letter in the blank.

Column A	Column B
1. (+6) − (+10) _____	(a) 0
2. (−2) − (−9) _____	(b) +7
3. (+5) − (−6) _____	(c) −10
4. (−7) − (+3) _____	(d) +11
5. (+4) − (+4) _____	(e) −4

E. Solve the Following [10 × 1 = 10 marks]

Show your working and write the answer.

1. (+25) − (+13) = _____

2. (+18) − (+30) = _____

3. (−22) − (−9) = _____

4. (−14) − (−30) = _____

5. (+16) − (−24) = _____

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6. (−19) − (+11) = _____

7. (−35) − (−35) = _____

8. (+27) − (−33) = _____

9. (−17) − (+23) = _____

10. A lift starts on Floor +9 and must reach Floor −3. Write the expression (Target − Start) and find the button press.
Ans: _____

F. Word Problems [5 × 2 = 10 marks]

Write the integer expression and solve. Show your working.

1. In Manali the temperature in the morning was +6°C and at night it was −4°C. Find the change in temperature.

2. A mine lift is at level −40 m and must reach level +25 m. How many metres, and in which direction, must it move?

3. Sana has ₹120 in her bank account. She withdraws ₹200. What is her new balance?

4. A diver is at 18 m below sea level (−18) and a seagull is flying 25 m above sea level (+25). How far above the diver is the seagull?

5. Arjun's score in a game is −15 and Divya's score is +20. How many points must Arjun gain to have the same score as Divya?

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ANSWER KEY

Subtraction of Integers

A. Fill in the Blanks

1. +5	**2.** −5	**3.** −4	**4.** +4	**5.** +12
6. −10	**7.** −7	**8.** +10	**9.** 0	**10.** additive inverse

B. Multiple Choice Questions

1. (c) +7	**2.** (b) −4	**3.** (b) −7	**4.** (d) −15	**5.** (d) +13
6. (b) 0	**7.** (b)	**8.** (b) −5	**9.** (d)	**10.** (c) +15

C. True or False

1. True
2. False – (−4) − (−4) = 0
3. True
4. False – (+2) − (+9) = −7
5. False – Example: (+3) − (−2) = +5, which is bigger than +3.

D. Match the Following

1. → (e) −4	**2.** → (b) +7	**3.** → (d) +11	**4.** → (c) −10	**5.** → (a) 0

E. Solve the Following

1. (+25) − (+13) = +12
2. (+18) − (+30) = −12
3. (−22) − (−9) = −13
4. (−14) − (−30) = +16
5. (+16) − (−24) = +40
6. (−19) − (+11) = −30
7. (−35) − (−35) = 0
8. (+27) − (−33) = +60
9. (−17) − (+23) = −40
10. A lift starts on Floor +9 and must reach Floor −3. Write the expression (Target − Start) and find the button press. → (−3) − (+9) = −12 [Press −12 (go down 12 floors).]

F. Word Problems

1. Change = Target − Start = (−4) − (+6) = −10.
The temperature fell by 10°C.

2. (+25) − (−40) = +65.
It must move 65 m upwards.

3. (+120) − (+200) = −80.
Her balance is −₹80 (overdrawn by ₹80).

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4. (+25) − (−18) = +43.
The seagull is 43 m above the diver.

5. (+20) − (−15) = +35.
Arjun must gain 35 points.

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