Worksheet 1: Addition of Integers

Class 6 | Ganita Prakash | Standard Level

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

Key Ideas to Remember

- Starting Floor + Movement = Target Floor. Example: (+1) + (+2) = +3
- Same signs: add the numbers and keep the sign. Example: (−3) + (−4) = −7
- Different signs: subtract the smaller number from the larger and keep the sign of the larger number. Example: (+5) + (−8) = −3
- A number and its additive inverse add up to zero: (+a) + (−a) = 0. Adding 0 does not change a number.

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

Write the correct answer in the blank.

1. (+6) + (+9) = _____

2. (−4) + (−7) = _____

3. (+8) + (−3) = _____

4. (−9) + (+5) = _____

5. (−12) + (+12) = _____

6. 0 + (−8) = _____

7. The additive inverse of +13 is _____.

8. (+7) + _____ = 0

9. The sum of two negative integers is always a _____ integer.

10. Starting at Floor +2 in the lift and pressing −5, you reach Floor _____.

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

Choose the correct option.

1. (+5) + (+8) = ?
(a) +3 (b) −13 (c) +13 (d) −3

2. (−6) + (−3) = ?
(a) −9 (b) −3 (c) +9 (d) +3

3. (−10) + (+4) = ?
(a) +14 (b) −6 (c) +6 (d) −14

4. (+11) + (−15) = ?
(a) +26 (b) +4 (c) −26 (d) −4

5. The additive inverse of −9 is
(a) −9 (b) 0 (c) +9 (d) +1

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6. Which of the following sums is equal to zero?
(a) (+4) + (+4) (b) (−6) + (+6) (c) (−3) + (−3) (d) (+5) + (−4)

7. (−8) + (+3) + (−2) = ?
(a) −13 (b) −7 (c) +7 (d) −9

8. A lift is on Floor −3 and the "+" button is pressed 7 times. It reaches Floor
(a) +10 (b) +4 (c) −4 (d) −10

9. Which of these sums is negative?
(a) (+9) + (−4) (b) (−2) + (+8) (c) (−7) + (+3) (d) (+5) + (+1)

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

C. True or False [5 × 1 = 5 marks]

Circle True or False.

1. The sum of two positive integers is always a positive integer. **True / False**

2. (−5) + (−5) = 0 **True / False**

3. (+9) + (−9) = 0 **True / False**

4. The sum of a positive integer and a negative integer is always negative. **True / False**

5. Adding zero to any integer does not change the integer. **True / False**

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

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

Column A	Column B
1. (+7) + (−2) _____	(a) −6
2. (−4) + (−6) _____	(b) +9
3. (−8) + (+8) _____	(c) 0
4. (+3) + (−9) _____	(d) +5
5. (−1) + (+10) _____	(e) −10

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

Show your working and write the answer.

1. (+14) + (+23) = _____

2. (−15) + (−25) = _____

3. (+30) + (−18) = _____

4. (−27) + (+19) = _____

5. (−45) + (+45) = _____

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6. (+36) + (−50) = _____

7. (−18) + (−32) = _____

8. (+9) + (−4) + (−8) = _____

9. (−7) + (+12) + (−6) = _____

10. (+15) + (−20) + (+10) = _____

F. Word Problems [5 × 2 = 10 marks]

Write the integer expression and solve. Show your working.

1. On a winter morning in Shimla, the temperature was −3°C. By the afternoon it had risen by 8°C. What was the temperature in the afternoon?

_____

_____

_____

2. Aman is at the Toy Store on Floor −1 of Bela's Building of Fun. He presses +4 and then −2 in the lift. On which floor does he reach? Write the expression.

_____

_____

_____

3. Meera has ₹200 in her bank account. She pays a bill of ₹350 from the account (a debit of ₹350). What is her bank balance now? What does the answer mean?

_____

_____

_____

4. A mine lift is at level −60 m. It goes down another 45 m. At what level is it now?

_____

_____

_____

5. In a board game, Riya scores +15 in round 1, −20 in round 2 and +8 in round 3. What is her total score after three rounds?

_____

_____

_____

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ANSWER KEY

Addition of Integers

A. Fill in the Blanks

1. +15	**2.** −11	**3.** +5	**4.** −4	**5.** 0
6. −8	**7.** −13	**8.** −7	**9.** negative	**10.** −3

B. Multiple Choice Questions

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

C. True or False

1. True
2. False – (−5) + (−5) = −10
3. True
4. False – Example: (+9) + (−4) = +5, which is positive.
5. True

D. Match the Following

1. → (d) +5	**2.** → (e) −10	**3.** → (c) 0	**4.** → (a) −6	**5.** → (b) +9

E. Solve the Following

1. (+14) + (+23) = +37
2. (−15) + (−25) = −40
3. (+30) + (−18) = +12
4. (−27) + (+19) = −8
5. (−45) + (+45) = 0
6. (+36) + (−50) = −14
7. (−18) + (−32) = −50
8. (+9) + (−4) + (−8) = −3 [+9 + (−4) = +5; +5 + (−8) = −3]
9. (−7) + (+12) + (−6) = −1 [−7 + (+12) = +5; +5 + (−6) = −1]
10. (+15) + (−20) + (+10) = +5 [+15 + (−20) = −5; −5 + (+10) = +5]

F. Word Problems

1. (−3) + (+8) = +5. The temperature was +5°C (5°C above zero).

2. (−1) + (+4) + (−2): (−1) + (+4) = +3; (+3) + (−2) = +1.
Aman reaches Floor +1 (the Food Court).

3. (+200) + (−350) = −150.
Her balance is −₹150, which means her account is overdrawn by ₹150.

4. (−60) + (−45) = −105.
The lift is at level −105 m (105 m below the ground).

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5. (+15) + (−20) + (+8): (+15) + (−20) = −5; (−5) + (+8) = +3.
Her total score is +3.

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