Class 07 Chapter Integer Practice paper - 2

1. Verify the following:

(a) 18 × [7 + (–3)] = [18 × 7] + [18 × (–3)]   (b) (–21) × [(– 4) + (– 6)] = [(–21) × (– 4)] + [(–21) × (– 6)]

2.(i) Subtract the sum of – 1032 and 878 from – 3   (ii) Subtract – 134 from the sum of 38 and – 87

3. The difference of an integer and – 5 is – 3 find the required integer.

4. Find the two integers whose sum is less than both the integers.

5. The sum of two integers is 47. If one of the integers is – 24, find the other.

6. Write two integers whose sum is 6 and difference is also 6.

7. Calculate: 1 – 2 + 3 – 4 + 5 – 6 + 7 – 8 + 9 – 10

8. Verify the following:

(a) 18 × [7 + (–3)] = [18 × 7] + [18 × (–3)]   (b) (–21) × [(– 4) + (– 6)] = [(–21) × (– 4)] + [(–21) × (– 6)]

9. (a) By how much does 3 exceeds – 4?   (b) By how much does -3 exceeds – 4?

10. What must be subtracted from - 2 to get - 5

11. A cement company earns a profit of Rs 8 per bag of white cement sold and a loss of Rs 5 per bag of grey cement sold. (a) The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is its profit or loss?   (b) What is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey bags sold is 6,400 bags.

12. The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at what time would the temperature be 8°C below zero? What would be the temperature at mid-night?

13. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach – 350 m.

14. Find the product, using suitable properties:

(a) 26 × (– 48) + (– 48) × (–36)   (b) 8 × 53 × (–125)   (c) 15 × (–25) × (– 4) × (–10)

(d) (– 41) × 102   (e) 625 × (–35) + (– 625) × 65   (f) 7 × (50 – 2)

15. Verify that a ÷ (b + c) ≠ (a ÷ b) + (a ÷ c). if a = 15, b = - 3 and c = 1