

ANSWERS

Number System

Exercise 1.1

1. (i) 90 (ii) -95 (iii) -104 (iv) 22 (v) 140
(vi) -100 (vii) 50 (viii) -171 (ix) -3 (x) 15, -42, -23
2. (i) False (ii) False (iii) True
3. (i) -4 (ii) -8 (iii) -110 (iv) -52 (v) 7 (vi) -63 (vii) -288
4. -38
5. Team A = Team B (yes, it can be added in any order)
6. Both are equal. Associative property under Addition
7. $0+2$, $1+1=2$, $-1+3$, $-2+4$, $-3+5$ (any pair)

Objective type questions

8. (iv) 10 pm
9. (i) $-9+(-5)+6$
10. (ii) -3
11. (iii) 0
12. (i) 20

Exercise 1.2

1. (i) -44 (ii) 30 (iii) -30
2. (i) False (ii) True (iii) False
3. (i) 1 (ii) 17 (iii) 99 (iv) -300
4. 3
5. 5th floor (above the ground floor)
6. 100°F
7. -2
8. Wrong, -35 (correct answer)

Objective type questions

9. (iii) 13
10. (ii) 0

Exercise 1.3

1. (i) 1 (ii) -2 (iii) -5 (iv) 5 (v) 0
2. (i) False (ii) True (iii) False
3. (i) '+' (ii) '-'
4. (i) -770 (ii) 1080 (iii) 3024 (iv) 0 (v) 10,000
5. (i) Not equal (ii) Not equal
(iii) Equal ; distributive property of multiplication over addition
6. Decrease of 12 inches
7. (-5×10) , (-10×5) , (2×-25) , $(-2) \times 25$, $(-1) \times 50$, $(-50) \times 1$

Objective type questions

8. (iv) $(-6) \times (+5)$
9. (iii) distributive
10. (iv) -11
11. (i) 108

Exercise 1.4

1. (i) -1 (ii) -5 (iii) -36 (iv) 1
2. (i) False (ii) False