# The Other Side of Zero

Standard difficulty · 20 questions · 40 marks · Time: 28 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

## Section A — Choose the correct answer — 8 × 1 = 8 marks

**1.** Which is the smallest: −25, 0, 24, 25?

**(a)** 24 **(b)** 0 **(c)** 25 **(d)** −25

**2.** 20 + (−12) equals:

**(a)** 8 **(b)** 32 **(c)** −8 **(d)** −32

**3.** −10 − (−25) equals:

**(a)** −15 **(b)** −35 **(c)** 35 **(d)** 15

**4.** On a number line, the numbers to the left of 0 are:

**(a)** even **(b)** zero **(c)** positive **(d)** negative

**5.** A lift is at floor 7. It goes up 6 floors. Which floor is it on now?

**(a)** 14 **(b)** 1 **(c)** 13 **(d)** −13

**6.** The temperature is 3 °C and falls by 17 degrees. What is the new temperature?

**(a)** −13 °C **(b)** −14 °C **(c)** 20 °C **(d)** 14 °C

**7.** If +10 m means 10 m above sea level, then −10 m means:

**(a)** 20 m below sea level **(b)** 10 m above sea level
**(c)** 10 m below sea level **(d)** at sea level

**8.** Which number added to −14 gives 0?

**(a)** 0 **(b)** −14 **(c)** 14 **(d)** −28

## Section B — Short answer — 8 × 2 = 16 marks

**9.** Arrange in increasing order: −29, 24, 15, −7, −1.

**10.** Find 7 + (−15) + 5 + 17.

**11.** Find −5 − (−9).

**12.** How many integers are there strictly between −22 and 16?

**13.** Fill in the box: 2 + □ = 21.

**14.** A bank balance is Rs 2,958. A payment of Rs 4,850 is made from it. Write the new balance as an integer.

**15.** What number do 9 positive tokens and 8 negative tokens make together?

**16.** How far apart are 17 and −17 on the number line?

## Section C — Word problems — 4 × 4 = 16 marks

**17.** A lift starts at floor 4 of a building with basements. It goes up 2, then up 7, then up 1 floor. Where does it stop?

**18.** In Kargil the temperature was 18 °C in the afternoon and −12 °C at night. By how many degrees did it fall?

**19.** Kabir's account starts at Rs 0. Kabir puts in Rs 884, takes out Rs 232, puts in Rs 150, takes out Rs 821. What is the balance now?

**20.** A bird flies 38 m above sea level and a fish swims 34 m below it. Taking sea level as 0, write both heights as integers and find the distance between them.

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# Answer key

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| Q | Answer | Working |
|---|---|---|
| 1 | **(d) −25** | −25 is furthest to the left on the number line |
| 2 | **(a) 8** | adding −12 means moving 12 steps left |
| 3 | **(d) 15** | subtracting −25 is the same as adding 25 |
| 4 | **(d) negative** | — |
| 5 | **(c) 13** | 7 + 6 = 13 |
| 6 | **(b) −14 °C** | 3 − 17 = −14 |
| 7 | **(c) 10 m below sea level** | — |
| 8 | **(c) 14** | −14 + 14 = 0 |
| 9 | **−29, −7, −1, 15, 24** | smallest (furthest left on the number line) first |
| 10 | **14** | positives 29, negatives −15 |
| 11 | **4** | subtracting −9 is adding 9: −5 + 9 = 4 |
| 12 | **37** | 21 negatives, 0, and 15 positives |
| 13 | **19** | 21 − 2 = 19 |
| 14 | **−1892** | 2958 − 4850 = −1892 (the account owes Rs 1,892) |
| 15 | **1** | 8 pairs cancel out, leaving 1 |
| 16 | **34 units** | 17 − (−17) = 34 |
| 17 | **floor 14** | 4 + 2 + 7 + 1 = 14 |
| 18 | **30 degrees** | 18 − (−12) = 30 |
| 19 | **−19 (owes Rs 19)** | 884 − 232 + 150 − 821 = −19 |
| 20 | **38 and −34; 72 m apart** | 38 − (−34) = 72 |



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