# **Integers in Other Places**

### A. Choose the Correct Answer: 1. If the temperature is -5°C and it drops by 3°C more, the new temperature is: a) –2°C b) -8°C c) 0°C d) –5°C 2. A submarine is at -300 meters. It rises 150 meters. Its new position is: a) –150 m b) -450 m c) 0 m d) +150 m 3. In a quiz, 4 points are awarded for a correct answer and -2 for a wrong one. What is the total score of a student who gets 3 correct and 2 wrong answers? a) 12 b) 8 c) 10 d) 6 4. The opposite of a loss of ₹250 is: a) ₹250 loss b) ₹500 d) –₹250 c) ₹250 gain 5. Which of these represents a gain? a) –12 b) +8 c) –9 d) –1 **B.** Write the Missing Terms to Complete the Sentences: 1. Going 10 floors below ground level is represented by integer. 2. A gain of ₹100 can be written as \_\_\_\_\_. 3. A temperature of 0°C is \_\_\_\_\_\_ between positive and negative values. 4. A credit of ₹500 is written as . 5. Loss of 15 points is represented by the integer .

## C. Figure out the answers to these questions:

- 1. A diver is at -18 meters below sea level. He goes down 12 meters more. Where is he now?
- 2. In a test, 5 marks are given for each correct answer and -1 for each incorrect one. A student answers 6 questions correctly and 4 incorrectly. What is the total score?
- 3. Write a situation where a negative integer is used in a bank account.
- 4. Represent the following temperatures on a number line: -5°C, 0°C, +7°C

5. Write two real-life examples where positive integers are used.

#### D. Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. Altitude below sea level is represented by a negative integer.
- 2. A temperature of  $+3^{\circ}$ C is colder than  $-3^{\circ}$ C.
- 3. In financial transactions, debit is shown as a positive integer.
- 4. A withdrawal from a bank account is represented by a negative integer.
- 5. Going up in a lift from basement is a positive movement.

#### E. Challenge yourself with these questions:

- 1. The temperature at night was  $-6^{\circ}$ C. By morning it rose by 10°C. What is the temperature now?
- 2. A plane is flying at a height of 800 m. It descends by 1,000 m. Represent the position after descending using integers.
- 3. Describe a real-life situation using integers involving profits and losses in a shop.
- 4. A person earns ₹3000 in a week but spends ₹3500. Represent this using integers and find the net balance.
- 5. Draw a vertical number line showing a height of +10 m and depth of -10 m.

#### F. Insert the appropriate symbol < or > or = in the following blanks.

1. 30 - (-54)54 + 302. 75 + (-30)(-100) + (-30)3. 13 + (-8)13 + 84. (-35 + 395)(-35) - 3955. (-5) + (5)9 + (-9)

5
1