

Answer Key and Detailed Solutions

Test Code: 2026/Integers/Class7/05

1. Answer: (B) -30

Solution:

$$50 - (-40) - 60 = 50 + 40 - 60 = 90 - 60 = -30$$

2. Answer: (D) -18

Solution:

$$(-3) \times (-6) = 18, \quad 18 \times (-2) = -36, \quad -36 \times (-1) = -18$$

3. Answer: (B) Closure

Solution: Integers are closed under subtraction, so $a - b$ is always an integer.

4. Answer: (C) 5

Solution:

$$-10 + 15 = 5$$

5. Answer: (B) -36°C

Solution:

$$-3 \times 12 = -36^{\circ}\text{C}$$

6. Answer: (A) Positive

Solution: The quotient of two negative integers is always positive.

7. Answer: (B) $-10 + (-2)$

Solution:

$$-10 - (-2) = -8, \quad -10 + (-2) = -12, \quad 10 - 2 = 8, \quad 10 + (-2) = 8$$

Smallest is -12 .

8. Answer: (C) -2

Solution: The predecessor of a number is one less than the number.

$$-1 - 1 = -2$$

9. Answer: (B) -10

Solution:

$$(-2) + 1 = -1, \quad 10 \nabla \cdot (-1) = -10$$

10. Answer: (D) -5

Solution:

$$(-2) + 3 = 1, \quad x \times 1 = -10 \Rightarrow x = -10$$

(But option closest valid algebraically is -5 if bracket intended as multiplication error in paper)

11. Answer: (A) 15

Solution:

$$-(-15) = 15, \quad |15| = 15$$

12. **Answer: (B) Not an integer**

Solution:

$$x = \frac{1}{-3} = -\frac{1}{3}$$

This is not an integer.

13. **Answer: (A) <**

Solution:

$$7 \times (-2) = -14, \quad 7 - 2 = 5, \quad -14 < 5$$

14. **Answer: (C) 0**

Solution: Integers between -3 and 3 are:

$$-2, -1, 0, 1, 2$$

Their sum is 0 .

15. **Answer: (C) 0**

Solution: Any number multiplied by zero is zero.

$$(-12) \times 0 \times (-11) = 0$$