

BCM SCHOOL, CHANDIGARH ROAD
A Senior Secondary of BCM Foundation
Affiliated to CBSE, NEW DELHI

Class VII (Mathematics)

Chapter-1(Integers)

Revision Assignment (April, 2025)

MCQ'S

1. The least integer lying between -10 and -15 is
(a) -10 (b) -11 (c) -15 (d) -14
2. The additive inverse of a negative integer is
(a) always negative (b) always positive (c) is same integer (d) zero
3. If a and b are two integers, then which of the following may not be an integer?
(a) $a + b$ (b) $a - b$ (c) $a \times b$ (d) $a \div b$
4. Which of the following is an additive identity for integer 'a'?
(a) a (b) 1 (c) 0 (d) -1
5. What is the value of $(-3) \times (-4) \times (-2)$
(a) 24 (b) -24 (c) 12 (d) -12

One Word

6. What is additive inverse of -10?
7. Which integer is the additive inverse of its own additive inverse?
8. Find $(-2) - (-6)$.

Fill in the blanks.

9. If we multiply _____ (even/odd) number of negative integers, then the resulting integer is positive.
10. Name the property: $a \times (b + c) = a \times b + a \times c$

Subjective Questions:

11. A green grocer had a profit of ₹ 47 on Monday, a loss of ₹ 12 on Tuesday and a loss of ₹ 8 on Wednesday. Find the net profit or loss in 3 days?
12. Write five pair of positive and negative integer, Whose difference is a positive integer.
13. Find the Product : $(-5) \times (-8) \times (-6)$.
14. A multistory building has 25 floors above the ground level each of height 5 m. It has also 3 floors in the basement each of height 5 m. A lift in the building move at a rate of 2 m/s. If a man starts from 50 m above the ground, how long will it take him to reach at 2nd floor of basement.
15. A man has ₹ 20,000 in his bank account. He withdraws ₹ 3,000 per month for first two months and deposit triple of its amount on third month. What will be balance in his account after 3 months?
16. If $a = -15$, $b = -8$ and $c = -6$, Verify that $a \times (b + c) = a \times b + a \times c$.
17. In a Quiz, team A scored -40, 30, 35 and team B scored 60, 30, -25 in the three successive rounds. Which team scored more and by how much?
18. Use sign $>$, $<$, $=$ for $29 + (-18) - 15$ _____ $36 + (-15) + 28$.

19. Find (i). $(-78) \div [(-75) + (-3)]$ (ii). $(-4) \times (-7) \times (3) \times (-6) \times (-5)$

20. A man travelled 50 Km East of place A and reached B. From B, he travelled 40 km west of B and reached C. Find the distance of C from A?

Assertion Reason Based Questions:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

1. **Assertion (A):** The additive inverse of -5 is 5.

Reason (R): The additive inverse of an integer a is an integer $-a$ such that $a + (-a) = 0$.

2. **Assertion (A):** The sum of a positive integer and a negative integer is always a positive integer.

Reason (R): When a smaller number is subtracted from a bigger number, the result is always positive.

Case Study

1. A group of students went on a mountain trek. They noted the altitudes (in meters) of different locations during their journey. Altitudes above sea level are positive integers, and those below sea level are negative integers.

Here are the recorded heights:

Base Camp: +1500 m

River Valley: -200 m

Hill Top: +2200 m

Cave (underground): -100 m

Midway Camp: +800 m

A). Which place is the highest and which is the lowest? Write their altitudes.

B). What is the difference in height between the Hill Top and River Valley?

C). If the trekker moves from Base Camp (+1500 m) to River Valley (-200 m), what is the total descent?

D). A student climbed from Midway Camp (+800 m) to Hill Top (+2200 m). How many meters did he climb?

E). Arrange all the locations in ascending order of altitude.

2. A school cricket team played a 5-over friendly match. Runs were scored as positive integers, and wickets (losses) were counted as negative values. Here's the performance over the 5 overs:

Over	Runs Scored	Wickets Lost
1	+6	-1
2	+10	0
3	+4	-2
4	+8	-1
5	+2	0

A). What is the total number of runs scored in all 5 overs?

B). What is the total number of wickets lost in the match? (Represent as a negative integer)

C). In which over did the team lose the most wickets?

D). Calculate the net score of the team (Runs – Wickets as integers).

E). If losing 1 wicket deducts 5 runs from the total, what is the final score after deductions?

Answers Key:

MCQ's Answers:

1. (b) -14 2. (b) always positive 3. (d) a / b 4. (c) 0 5. (b) -24

One Word Answers: 6. 10 7. 0 8. 4

Fill in the Blanks: 9. Even 10. Distributive Property

Subjective Questions: 11. ₹27 (Profit) 12. Examples: (6, -2), (5, -1), (9, -4), (7, -3), (10, -5) 13. -240

14. 30 second 15. Final balance = ₹ 23000 17. Team B scored more by 40

18. < 19. (i) 1 (ii) 2520 20. Distance of C from A = 10 km east

Assertion Reason Based Questions: 1. (a) 2. (d)

Case Study Answers:

Case Study 1 – A) Highest: Hill top(+2200), Lowest: River Valley (-200 m) B) 2400 m

C) 1700 m D) 1400 m E). River Valley, Cave, Midway camp, Base camp, Hill top.

Case Study 2 – A) 30 B) 4 C) 3rd Over D) 26 E) 10