

**CLASS VII**  
**MATHEMATICS**  
**CHAPTER -1 INTEGERS**  
**MODULE -8/8**

1) Verify  $a - (-b) = a + b$  for the following values of 'a' and 'b'.

(a)  $a = 75, \quad b = 84$

(b)  $a = 118, \quad b = 125$

(c)  $a = 25, \quad b = 30$

2) Write down a pair of integers whose

(a) Sum is  $-3$

(b) Sum is  $0$

(c) Difference is  $2$

(d) Difference is  $-5$

3) Verify the following :

a)  $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$

b)  $15 \times [6 + (-3)] = [15 \times 6] + [15 \times (-3)]$

c)  $(-15) \times [(-8) + (-6)] = [(-15) \times (-8)] + [(-15) \times (-6)]$

4) Evaluate :

a)  $(-100) \div 5$

b)  $(-36) \div (-4)$

c)  $(-41) \div [(-40) + (-1)]$

d)  $0 \div (-18)$

e)  $[(-36) \div 12] \div 3$

f)  $(-50) \div (50)$

g)  $60 \div (-6)$

h)  $(-48) \div -48$

i)  $(-13) \div (13)$

5) Do as directed :

1. In a test (+5) marks are given for every correct answer and ( -2) marks are given every incorrect answer.

- (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
- (ii) Jay also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect answers had they attempted?

6) In a class test containing 15 questions 4 marks are given for every correct answer and (-2) marks are given for every incorrect answers :

- i) Gurupreet attempts all question but only 9 of her answers are correct. What is her total score?
- ii) One of her friends gets only 5 answers correct. What will be her score ?

7) Write five pairs of integers (a, b) such that  $a \div b = -6$ .

8) Find

i)  $(-3) \times (-6) \times (-2) \times (-1)$

ii)  $(-12) \times (-11) \times (10)$

iii)  $(-320) \times (-1)$

iv)  $(-18) \times 0 \times (-16)$

v)  $9 \times (-5) \times (-3)$

vi)  $(-41) \times 10$

vii)  $(-21) \times (-30)$

viii)  $(-1) \times 225$

ix)  $(-22) \times (-1)$

x)  $(-20) \times (-2) \times (-5) \times 7$

9) Use the sign  $>$ ,  $<$ ,  $=$

i)  $29 + (-18) - 15$    $36 - (-15) + 28$

ii)  $-241 + 76 + 86$    $- 399 + 163 + 45$

iii)  $(-3) + 7 - (-18)$    $18 - 9 + (-6)$

iv)  $(-8) + (-6)$    $(-8) - (-6)$

v)  $(-18) + (18)$    $(-31) + (31)$

vi)  $86 - 45 + 23$    $-36 - (20) - (-8)$

10) In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If Jack's scores in five successive rounds were 65, -10, -15, 20, 30. what was his total score at the end?

11) In a quiz, team A scored -50, 30, 0 and team B scored 60, 30, -40 in three successive rounds. Which team scored more?

12) The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at what time would the temperature be 8°C below zero? What would be the temperature at mid - night?

13) Replace the blank with an integer to make it a true statement.

a) \_\_\_\_\_  $\times (-12) = -60$

b)  $5 \times$  \_\_\_\_\_  $= -35$

c)  $(-8) \times$  \_\_\_\_\_  $= 72$

d) \_\_\_\_\_  $\div (-3) = 9$

e)  $(-20) \div$  \_\_\_\_\_  $=$