

**WORK SHEET**  
**SUBJECT- MATHS**  
**Chapter 1- Integers**

**CLASS- VII**

**I. Perform the following operations on Integers :-**

- |                  |                   |                   |
|------------------|-------------------|-------------------|
| 1. $(+5) + (+2)$ | 6. $(-7) + (-3)$  | 11. $(+9) + (-4)$ |
| 2. $(-5) + (-2)$ | 7. $(+7) + (-3)$  | 12. $(-9) + (+4)$ |
| 3. $(+5) + (-2)$ | 8. $(-7) + (+3)$  | 13. $(-7) + (-2)$ |
| 4. $(-5) + (+2)$ | 9. $(+9) + (+4)$  | 14. $(-7) + (+2)$ |
| 5. $(+7) + (+3)$ | 10. $(-9) + (-4)$ | 15. $(+7) + (-2)$ |

**II. Perform the following operations on Integers :-**

- |                  |                   |                   |
|------------------|-------------------|-------------------|
| 1. $(+5) - (+2)$ | 6. $(-7) - (-3)$  | 11. $(+9) - (-4)$ |
| 2. $(-5) - (-2)$ | 7. $(+7) - (-3)$  | 12. $(-9) - (+4)$ |
| 3. $(+5) - (-2)$ | 8. $(-7) - (+3)$  | 13. $(-7) - (-2)$ |
| 4. $(-5) - (+2)$ | 9. $(+9) - (+4)$  | 14. $(-7) - (+2)$ |
| 5. $(+7) - (+3)$ | 10. $(-9) - (-4)$ | 15. $(+7) - (-2)$ |

**III. Perform the following operations on Integers :-**

- |                        |                        |
|------------------------|------------------------|
| 1. $(+5) \times (+2)$  | 11. $(+9) \times (-4)$ |
| 2. $(-5) \times (-2)$  | 12. $(-9) \times (+4)$ |
| 3. $(+5) \times (-2)$  | 13. $(-7) \times (-2)$ |
| 4. $(-5) \times (+2)$  | 14. $(-7) \times (+2)$ |
| 5. $(+7) \times (+3)$  | 15. $(+7) \times (-2)$ |
| 6. $(-7) \times (-3)$  | 16. $-8 \div -2$       |
| 7. $(+7) \times (-3)$  | 17. $-8 \div 2$        |
| 8. $(-7) \times (+3)$  | 18. $8 \div (-2)$      |
| 9. $(+9) \times (+4)$  | 19. $24 \div (-2)$     |
| 10. $(-9) \times (-4)$ | 20. $-18 \div 6$       |

IV. Find (a)  $(-7) - 8 - (-25)$  (b)  $(-13) + 32 - 8 - 1$  (c)  $(-7) + (-8) + (-90)$  (d)  $50 - (-40) - (-2)$

**V. Fill in the blanks with  $<$ ,  $>$  or  $=$  sign.**

- (a)  $(-3) + (-6)$  \_\_\_\_\_  $(-3) - (-6)$
- (b)  $(-21) - (-10)$  \_\_\_\_\_  $(-31) + (-11)$
- (c)  $45 - (-11)$  \_\_\_\_\_  $57 + (-4)$
- (d)  $(-25) - (-42)$  \_\_\_\_\_  $(-42) - (-25)$

**VI. Fill in the blanks using  $>$ ,  $<$  or  $=$  sign.**

- (a)  $(-8) + (-4)$    $(-8) - (-4)$
- (b)  $(-3) + 7 - (19)$    $15 - 8 + (-9)$
- (c)  $23 - 41 + 11$    $23 - 41 - 11$

(d)  $39 + (-24) - (15)$    $36 - (-52) - (-36)$

(e)  $-231 + 79 + 51$    $-399 + 159 + 81$

**VII. Fill in the blanks**

(a)  $(-8) + \underline{\hspace{2cm}} = 0$  (b)  $13 + \underline{\hspace{2cm}} = 0$

(c)  $12 + (-12) = \underline{\hspace{2cm}}$  (d)  $(-4) + \underline{\hspace{2cm}} = -12$

(e)  $\underline{\hspace{2cm}} - 15 = -10$

**VIII. (i) Find each of the following products.**

(a)  $(-20) \times (-2) \times (-5) \times 7$  (b)  $(-1) \times (-5) \times (-4) \times (-6)$

**(ii) Fill in the blanks**

(a)  $(-3) \times \underline{\hspace{2cm}} = 27$  (b)  $5 \times \underline{\hspace{2cm}} = -35$  (c)  $\underline{\hspace{2cm}} \times (-8) = (-56)$  (d)  $\underline{\hspace{2cm}} \times (-12) = 132$

**IX. Solve**

(a)  $(-30) \div 10$

(f)  $0 \div (-12)$

(b)  $50 \div (-5)$

(g)  $(-31) \div \{(-30) + (-1)\}$

(c)  $(-36) \div (-9)$

(h)  $\{(-36) + 12\} \div 3$

(d)  $(-49) \div 49$

(i)  $\{(-6) + 5\} \div \{(-2) + 1\}$

(e)  $13 \div \{(-2) + 1\}$

**X. Fill in the blanks**

(a)  $369 \div \underline{\hspace{2cm}} = 369$   
 $\underline{\hspace{2cm}} = 87$

(b)  $(-75) \div \underline{\hspace{2cm}} = -1$

(c)  $(-206) \div \underline{\hspace{2cm}} = -1$

(d)  $-87 \div \underline{\hspace{2cm}} = 87$

(e)  $\underline{\hspace{2cm}} \div 1 = -87$   
 $\underline{\hspace{2cm}} \div 4 = -3$

(f)  $\underline{\hspace{2cm}} \div 48 = -1$

(g)  $20 \div \underline{\hspace{2cm}} = -2$

(h)  $\underline{\hspace{2cm}} \div 4 = -3$

**XI. Solve using suitable properties :-**

1)  $(-5782396) \times 9 + 5782396 \times (-1)$

2)  $8326429 \times (-98) + (-8326429) \times (-2)$

3)  $(-7624928) \times 997 + (7624928) \times (-3)$

4)  $(-98) \times (-9) + 98$

5)  $(-237) \times (-99) + 237$

6)  $(-563) \times (-999) + 563$

7)  $7 \times (50-2)$

8)  $253 \times (100-1)$

9)  $567 \times (1000-1)$

10)  $(-41) \times 102$

11)  $(-34) \times 1002$

12)  $(-67) \times 101$

13)  $(-84) \times 99$

14)  $(-24) \times 998$

15)  $(-17) \times 9997$

16)  $(-17) \times (-29)$

17)  $(-27) \times (-39)$

18)  $(-37) \times (-49)$

19)  $8 \times 53 \times (-125)$

20)  $8 \times 56739 \times (-125)$

21)  $(-8) \times 32597 \times 12$

22)  $8 \times (-63298) \times 125$

23)  $(-8) \times (-53) \times 125$

24)  $8 \times (-56739) \times (-125)$

25)  $15 \times (-25) \times (-4) \times (-10)$

26)  $23 \times (-25) \times (-4) \times (-10)$

27)  $627 \times (-125) \times (-8)$

28)  $583 \times (-125) \times (-5) \times 16$

29)  $(-749) \times 25 \times (-250) \times 16$

30)  $183 \times (-25) \times 8 \times 5$

- XII. In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks for every incorrect answer. (i) Gurpreet attempts all questions 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?
- XIII. In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for not attempting any of the questions.
- Mohan gets 4 correct answers and 6 incorrect answers. What is his score?
  - Reshma gets 5 correct and 5 incorrect answers. What is her score?
  - Heena gets 2 correct and 5 incorrect answers out of 7 questions she attempted. What is her score?
- XIV. In a test (+5) marks are given for every correct answer and (-2) for incorrect answer
- Radhika answered all the questions and scored 30 marks though she got 10 correct answers
  - Jay also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect questions did they attempt?
- XV. In a class test + 3 marks are given for every correct answer and -2 marks are given for every incorrect answer and no marks for not attempting any question –
- Radhika scored 20 marks if she has got 12 correct answers. How many questions had she attempted incorrectly?
  - Mohini scored -5 marks in the test though she had got 7 correct answers. How many questions had she attempted incorrectly?
- XVI. An elevator descends into the mine shaft @ 6 min per minute. If it descends from 10m above the ground, how long will it take to reach -350m?
- XVII. Suppose we represent the distance above the ground, what will be its positive integer and that below the ground by a negative integer, then answer the following: -
- An elevator descends into a mine shaft at the rate of 5 m per minute. What will be its position after 1 hour?
  - If it begins descending from 15 m above the ground, what will be its position after 45 minutes?
- XVIII. A certain freezing process requires that room temperature be lowered from  $40^{\circ}\text{C}$  at the rate of  $5^{\circ}\text{C}$  every hour. What will be the room temperature 10 hours after the process begins?
- XIX. The temperature at the noon was  $10^{\circ}\text{C}$  above zero. If it decreases @  $2^{\circ}\text{C}$  per hour until midnight, at what rate would the temperature will be  $8^{\circ}\text{C}$  below zero? What would be the temperature at midnight?
- XX. A cement company earns a profit of Rs 8 per bag of white cement sold and a loss of Rs 5 per bag of grey cement sold.
- The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is its profit or loss?
  - What is the no. of white cement bags it must sell to have neither profit nor loss, if the no. of grey bags sold is 6,400 bags.
- Q (21) A shopkeeper earns a profit of Re 1 by selling 1 pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock.
- In a particular month she incurs a loss of Rs 5. In this period, she sold 45 pens. How many pencils did she sell in this period?
  - In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils were sold?