Integers Worksheet

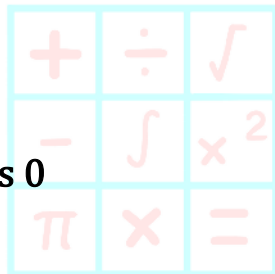## Addition, Subtraction & Word Problems

1. Write down a pair of integers whose:

   (a) sum is –7

   (b) difference is –10

   (c) sum is 0

2. Fill in the blanks to make the following statements true:

   (i) (–5) + (– 8) = (– 8) + (.............)

   (ii) –53 + ... = –53

   (iii) 17 + ... = 0

   (iv) [13 + (– 12)] + (.............) = 13 + [(–12) + (–7)]

   (v) (– 4) + [15 + (–3)] = [– 4 + 15] + ...

3. Solve the following:

    (a) –12 + 7

    (b) –25 + (–15)

    (c) 30 – 40

    (d) –8 + 8

4. (a) Find two negative numbers whose difference is 8.

    (b) Find a positive and a negative number whose sum is –5.

    (c) Find a positive and a negative number whose difference is –3.

5. Solve:

    (a) (–7) + 9

    (b) (–15) – (–8)

(c) 12 – (–5)

(d) (–20) + (–15) + 10

(e) (–50) – 25

6. Find the missing number:

(a) (–6) + ... = –10

(b) 15 – .... = 5

(c) (–20) + ... = –5

(d) 8 – .... = –4

7. In a quiz, Team A scored –40, 10, and 0. Team B scored 10, 0, and –40. Which team has the higher score? Does the order of addition change the result?

8. A diver starts at –25 meters. He moves up 12 meters and then down 8 meters. Where is he now?

9. A person deposits ₹500 in a bank and withdraws ₹800. How much money is left in the account?

10. A lift is on the 5th floor. It moves down 8 floors and then up 3 floors. Which floor is it on now?

11. The temperature at 6 AM is –3°C. By noon, it rises by 8°C, but by midnight, it drops by 6°C. What is the temperature at midnight?

12. A bank account starts with –₹500 (overdraft). A deposit of ₹700 is made, and then ₹300 is withdrawn. What is the final balance?

13. A football team gains 5 points, loses 12 points, gains 8 points, and loses 3 points. What is the total score?

14. A mountain is 2,500 meters tall. A climber starts 500 meters below sea level and reaches the peak. How far does he climb?

15. An elevator is on the 10th floor. It moves down 6 floors, up 4 floors, down 5 floors, and then up 2 floors. Where is it now?

16. Solve this riddle: "I am a number. If you double me and subtract 4, you get 10. What number am I?"

17. Arrange in ascending order: −7, +12, −5, 0, −15, +8

18. A shopkeeper records daily profit/loss as follows: Monday (+₹200), Tuesday (−₹150), Wednesday (+₹300), Thursday (−₹250), Friday (+₹100). What is the total?

19. Find the sum of the first five negative odd numbers.

20. A submarine is at −200 meters. It moves up 50 meters, down 80 meters, up 40 meters, and down 30 meters. What is its final position?