

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2025-26

CLASS: VII

SUBJECT: MATHEMATICS

DATE: 25 – 05 – 2025

LESSON: 4 SIMPLE EQUATIONS

1. Write the following statements in the form of equations:
 - a) The sum of four times a number and 5 is 21
 - b) 2 is subtracted from x, which is 8
 - c) One-third of a number plus 5 is 10
 - d) Seven times a number is 12 less than thirteen times the same number
 - e) If you subtract 5 from 6 times a number, you get 7
2. Convert the following equations into statement form:
 - a) $x - 5 = 9$
 - b) $6y = 42$
 - c) $3n + 6 = 48$
 - d) $\frac{x}{7} = 4$
 - e) $3x + 2 = 6$
3. Find the solution of the following equations using the elimination method:
 - a) $3y + 1 = 22$
 - b) $5x = 50$
 - c) $\frac{z}{3} = 4$
 - d) $4x - 2 = 14$
4. Find the solution of the following equations using the transposing method:
 - a) $\frac{a}{6} = \frac{1}{18}$
 - b) $5 + 6(q - 1) = 35$
 - c) $5y - 5 = 50$
 - d) $2x + 12 = 28$
 - e) $4x + 7 = x + 2$
5. Solve the following equations:
 - a) $5a + 7 = 2a - 5$
 - b) $3x + 11 = 4x - 6$
 - c) $3x + 4(x - 1) = 10$
 - d) $\frac{7x}{10} - 4 = 10$
 - e) $3x = \frac{15}{2}$

- f) $7x - 15 = 6(x + 2)$
6. If 5 is added to twice a number, the result is 29. Find the number
 7. In an isosceles triangle, the base angles are equal if the vertex angle is 50° . What are base angles?
 8. Manu's father's age is 4 years more than three times Manu's age. Find Manu's age if his father is 37 years old.
 9. The length of a rectangle is 2 more than its breadth. Find the length and breadth of a rectangle if the perimeter is 20cm
 10. The sum of three consecutive multiples of 2 is 18. Find the numbers
 11. 3 subtracted from 2 times of a number p is 9. Find the number
 12. Raju's mother's age is 6 years less than twice Raju's age. Find Raju's age if his mother is 50 years old
 13. After 20 years, Manoj will be 5 times as old as he is now. Find his present age?

Answers:

1. a) $4x + 5 = 21$ b) $x - 2 = 8$ c) $\frac{z}{3} + 5 = 10$ d) $7c = 13c - 12$
e) $6x - 5 = 7$
3. a) $y = 7$ b) $x = 10$ c) $z = 12$ d) $x = 4$
4. a) $a = \frac{1}{3}$ b) $q = 6$ c) $y = 11$ d) $x = 8$
e) $x = \frac{-5}{3}$
5. a) -4 b) 17 c) 2 d) 20 e) $\frac{5}{2}$ f) 27
6. 24 7. 65° 8. 11yrs
9. $l = 6\text{cm}, b = 4\text{cm}$ 10. 4,6,8 11. 6
12. 28yrs 13. 5 yrs
