PRACTICE WORKSHEET

Subject: Mathematics **Class:** CBSE 8th

Chapter: Linear Equations **Worksheet:** M-2

TYPE/TOPIC OF QUESTIONS: SOLVING LINEAR EQUATIONS

1. $7x + 2 = -19$
2. $3x - 1/3 = 5$
3. $5x - 4 = 21$
4. $-7x = 21$
5. $18 - 7x = -3$
6. $3(x + 4) = 21$
7. $2x/3 - 3x/5 = 8$
8. $3x - 9 = 5x - 3$
9. $3(x - 3) = 4(2x + 1)$
10. $3x/2 - 10 = 1/2$
11. $x/2 - x/3 = 8$
12. $6x - 9 - 2(1 - x) = x + 9$
13. $2(x - 2) - 5(x - 5) = 4(x - 8) - 2(x - 2)$
14. $(2 - y)/(y + 7) = 3/5$
15. $(3x + 2)/(2x - 3) = -3/2$
16. $(x - 8)/3 = (x - 3)/5$
17. $0.25(4y - 3) = 0.5y - 9$

TYPE/TOPIC OF QUESTIONS: WORD PROBLEMS

18. Convert the following statements into equations.
    (a) 5 added to a number is 9.
    (b) 3 subtracted from a number is equal to 12.
    (c) 5 times a number decreased by 2 is 4.
    (d) 2 times the sum of the number x and 7 is 13.

19. A number is 12 more than the other. Find the numbers if their sum is 48.

20. Twice the number decreased by 22 is 48. Find the number.

21. Seven times the number is 36 less than 10 times the number. Find the number.

22. 4/5 of a number is more than 3/4 of the number by 5 . Find the number.

23. The sum of two consecutive even numbers is 38. Find the numbers.

24. The sum of three consecutive odd numbers is 51. Find the numbers.

25. Rene is 6 years older than her younger sister. After 1 0 years, the sum of their ages will be 50 years. Find their present ages.

26. The length of a rectangle is 10 m more than its breadth. If the perimeter of rectangle is 80 m, find the dimensions of the rectangle.

27. A 300 m long wire is used to fence a rectangular plot whose length is twice its width. Find the length and breadth of the plot.

28. The denominator of a fraction is greater than the numerator by 8. If the numerator is increased by 17 and denominator is decreased by 1, the number obtained is 3/2, find the fraction.

29. A sum of $2700 is to be given in the form of 63 prizes. If the prize is of either $100 or $25, find the number of prizes of each type.

30. In a class of 42 students, the number of boys is 2/5 of the girls. Find the number of boys and girls in the class.

31. Among the two supplementary angles, the measure of the larger angle is 36° more than the measure of smaller. Find their measures.

32. My mother is 12 years more than twice my age. After 8 years, my mother's age will be 20 years less than three times my age. Find my age and my mother's age.

33. In an isosceles triangle, the base angles are equal and the vertex angle is 80°. Find the measure of the base angles.

34. Adman's father is 49 years old. He is 5 years older than four times Adman's age. What is Adman's age?

35. The cost of a pencil is 25 cents more than the cost of a eraser. If the cost of 8 pencils and 10 erasers is $12.80, find the cost of each.

36. Divide 36 into two parts in such a way that 1/5 of one part is equal to 1/7 of the other.

37. The length of the rectangle exceeds its breadth by 3 cm. If the length and breadth are each increased by 2 cm, then the area of new rectangle will be 70 sq. cm more than that of the given rectangle. Find the length and breadth of the given rectangle.