School786
AN ONLINE SCHOOL

Name: Due Date: Teacher: Parent Sign:

Questions

1. Solve for x: $3x + 5 = 20$

2. Solve for x: $7x - 14 = 0$

3. Solve for x: $4x + 9 = 1$

4. Solve for x: $5 - 2x = 13$

5. Solve for x: $\frac{6x}{3} = 10$

6. Solve for x: $(\frac{1}{2})x + 4 = 10$

7. Solve for x: $3(x - 2) = 12$

8. Solve for x: $2(4x + 1) = 18$

9. Solve for x: $0.5x + 2.5 = 5$

10. Solve for x: $-3x + 7 = 1$

11. Solve for x: $8x - 3 = 5x + 9$

12. Solve for x: $2x + 3 = x + 11$

13. Solve for x: $4x - 2 = 2x + 10$

14. Solve for x: $9x + 5 = -2x + 24$

15. Solve for x: $3(x + 4) = 2x + 15$

16. A pen costs p dollars. Three pens and two notebooks cost $11. If one notebook costs $2, write and solve an equation to find p.

17. A car travels at $60 \frac{km}{h}$. How many hours h to go 150 km? (Write and solve an equation.)

18. A rectangle has length $(2x + 1)$ cm and width $(x - 1)$ cm. If the perimeter is 26 cm, find x.

19. A phone plan costs $a per month. If 4 months cost $68, find a.

20. You buy t identical items for $45. If each item costs $5, write and solve for t.

21. Solve for x: $(\frac{x}{3})$ - 2 = 4

22. Solve for x: $(5x + 2)/2 = 11$

23. Solve for x: $(\frac{2}{3})x + 1 = 5$

24. Solve for x: $7 - (\frac{x}{4}) = 3$

25. Solve for x: $12 = 3(x + 1)$

26. Find k such that the equation $2x + k = 10$ has solution x = 3.

27. Find k such that $(k)x - 4 = 8$ has solution x = 3.

28. Find k such that the equation $kx = 15$ has solution x = 5.

29. Find k so that the equation $4x + k = 4x + 7$ has how many solutions? (Determine k and number of solutions.)

30. For what value of k does $5x + 3 = 5x + k$ have infinitely many, none, or exactly one solution? (State k for each case.)

31. Determine the number of solutions of the equation $3x + 2 = 3x + 2$.

32. Determine the number of solutions of the equation $3x + 2 = 3x + 5$.

33. Determine the number of solutions of the equation $0x = 0$.

34. Determine the number of solutions of the equation $0x = 7$.

35. Determine the number of solutions of the equation $(k-1)x = 7$ when $k = 1$ and when k 1.

36. Solve for x and k if $2x + k = 10$ and $x = 4$.

37. Solve for x and k if $kx + 2 = 14$ and $x = 2$.

38. Solve for k such that $x = 0$ is a solution of $kx + 5 = 5$.

39. Find k so that $x = -1$ solves $kx + 3 = 0$.

40. Find k so that $x = 2$ solves $7x + k = 21$.

41. Determine whether the linear equation $4x + 6 = 4x + 6$ has zero, one, or infinitely many solutions.

42. Determine whether the linear equation $2x + 1 = 2x - 1$ has zero, one, or infinitely many solutions.

43. For which value(s) of m does $m\,x + 2 = m\,x + 2$ hold for all x?

44. For which value(s) of m does $m\,x + 3 = m\,x + 5$ have a solution?

45. Determine the number of solutions for x in the equation $(2m)x = 10$ when $m = 0$ and when $m = 5$.

46. Solve for x: $10 - 3x = 4$

47. Solve for x: $14 = 2(3x + 1)$

48. Solve for x: $(x - 5) + 2x = 10$

49. Solve for x: $6x + 4 = 2x + 12$

50. Solve for x: $11x - 22 = 0$