

Name _____

Date _____

Review EQUATIONS

Solve the one or two-equation.

1. $-41 = a - 22$

2. $6 = -d + 17$

3. $v - \frac{1}{4} = \frac{3}{4}$

4. $3.5x + 2.4 = 16.4$

5. $16 = t + 7$

6. $y - 7 = -12$

7. $d - 4.2 = -2.7$

8. $-6 = \frac{x}{8} + 4$

9. $-\frac{y}{2} = -13$

10. $\frac{1}{7}x - 8 = 6$

11. $\frac{1}{9}x = 16$

12. $\frac{p}{7} - 28 = -32$

13. $-7d = -42$

14. $2 = 10 - \frac{x}{3}$

Solve the multi-step equation

15. $7d + d - 6d + 5 = 2d$

16. $3x - 8 = 5x + 2$

17. $3p - 1 = 5(p - 1) - 2(7 - 2p)$

18. $2(4 - 2r) = -2(r + 5)$

19. $4p - 10 = p + 3p - 2p$

20. $-8(4 + 9x) = 8(-2 - 11x)$

21. $2(6-4d) = 25-9d$

22. $8z-7 = 3z-7+5z$

23. $7g+14-5g = -8$

24. $13+2(5c-2) = 29$

Solve the equations with decimals or fractions. Do not give a decimal answer for a fraction problem and do not give a fraction answer for a decimal problem

25. $p+3.7 = 8.9$

26. $x+6.1 = 7.2$

27. $b+\frac{1}{3} = \frac{1}{6}$

28. $c+\frac{1}{2} = \frac{1}{4}$

29. $\frac{2}{3}x-9 = x$

30. $-\frac{6}{5}w = 8$

31. $0.92x+0.98(12-x) = 0.96(12)$

32. $\frac{4(5x+6)}{3} = 2x+5$

Translate the verbal expression or equation into an algebraic expression or equation.

33. _____ five more than a number

34. _____ six less than a number

35. _____ five more than twice a number

36. _____ four times a number

37. _____ six less than nine times a number

38. _____ the sum of eight and a number

39. _____ the quotient of a number and three

40. _____ seven times the difference of five and a number

41. _____ five times the sum of a number and three

Perimeter and Consecutive Integer

SOLVE:

42. The length of a rectangle is twice the width. The perimeter of the rectangle is 66 m. Find the length and width of the rectangle.

43. The width of a rectangle is three more than the length. The perimeter of the rectangle is 78 m. Find the length and width of the rectangle.
44. The length of a rectangle is five less than twice the width. The perimeter of the rectangle is 38 in. Find the length and width of the rectangle.
45. The sum of two consecutive integers is 137. Find the two integers.
46. The sum of three consecutive integers is 57. Find the three integers.
47. The sum of three consecutive odd integers is 141. Find the three integers.
48. The sum of three consecutive even integers is 156. Find the three integers.

Literal Equations

49. Solve the following for h . $S = lwh$
50. Solve the following for a . $A = \frac{1}{2}ap$
51. Solve the following for b . $A = \frac{1}{2}bh$
52. Solve the following for y . $3x + 2y = 10$