

Chapter 2 Test

Solve. (2.1)

1. $x + 22 = 20$

2. $y - 14 = 17$

3. $7a + 21 = 3a + 13$

4. $34 = 15 + s$

5. $12 - x = 48$

6. $16 = -b + 24$

7. $x - 56 = 146$

8. $y + 44 = 68$

9. $15a + 21 = 8a + 77$

10. $33 = 54 + s$

11. $22 - x = 32$

12. $38 = b - 87$

13. $x - 125 = 210$

14. $y + 24 = -19$

15. $66 = -17 + s$

Solve. (2.2)

16. $-6 = \frac{x}{9}$

17. $\frac{a}{13} = 20$

18. $\frac{b}{-12} = 6$

19. $22x = 88$

20. $6.3y = 56.7$

21. $-9a = 549$

22. $224 = -28b$

23. $-18x = -432$

24. $\frac{x}{6} = 78$

25. $9 = \frac{-a}{12}$

26. $\frac{c}{23} = 21$

27. $\frac{v}{14} = -16$

28. $3b = 63$

Solve. (2.3)

29. $34 + d = -76 - d$

30. $\frac{x}{4} - 7.2 = 9.4$

31. $5x - 11.8 = 31.8$

32. $16.3 + 2y = 21.7$

33. $y - 18.4 = +33$

34. $50 = 5c + 44.8$

35. $6.2 - 3.2x = -87$

36. $3x - 72 = 2.8x + 17$

37. $43.8 + 2.8p = -9 + p$

38. $\frac{x}{7} + 2 = 14$

39. $6x - 12 = 32$

40. $28 + 8.1y = 1.9$

41. $5c - 43 = 6.6c + 32$

42. $51.6 + 1.6p = -7 + k$

43. $\frac{x}{6} + 3 = 45$

Solve. (2.4)

44. $a = bc$. Find b if $a = 0.09$ and $c = 3.6$.

45. $g = \sqrt{d + xz}$. Find g if $d = 8$, $x = 8$, and $z = 1$.

46. $x = \frac{y}{z}$. Find y if $x = -5.5$ and $z = -22$.

47. $d = Gh$. Find value of h when d is 5 and G is 9.

48. $Y = 0.05st$. Find s when Y is 28 and t is 8.5.

49. $j = \frac{n}{m}$. Find j if $n = 2.7$ and $m = -3$.

50. $q = w - r$. Find q if $r = 1435$ and $w = 125$.

51. $S = d\sqrt{ce}$. Find S if $d = 6$, $c = 5$, and $e = 20$.

52. $A = \frac{B}{C} + \frac{D}{4}$. Find B if $A = 8$, $C = 4$, and $D = 20$.