Math 9: Chapter 6 Solving Linear Equations

Multiple Choice
Identify the choice that best completes the statement or answers the question.

_____ 1. Solve $0.8\,p = 3.6$.

    a. $p = 0.22$ b. $p = 0.45$ c. $p = 2.88$ d. $p = 4.5$

_____ 2. Solve $4f = 11$.

    a. $f = 0.28$ b. $f = 0.36$ c. $f = 2.5$ d. $f = 2.75$

_____ 3. What is the value of m if $\dfrac{3\,m}{5} = 3.5$?

    a. $m = 2.1$ b. $m = 5.83$ c. $m = 7.75$ d. $m = 9.5$

_____ 4. What is the value of d if $\dfrac{6.3}{7} = 3\,d$?

    a. $d = 0.3$ b. $d = 3.33$ c. $d = 18.9$ d. $d = 21$

_____ 5. Solve the following: $5s + 4 = 22$.

    a. $s = 2.4$ b. $s = 3.6$ c. $s = 18$ d. $s = 22$

_____ 6. What is the value of q if $2.7\,q - 5 = 6.07$?

    a. $q = 0.396$ b. $q = 2.862$ c. $q = 4.100$ d. $q = 11.240$

_____ 7. Solve the following: $\dfrac{3.2\,a}{4} + 6.2 = 7.32$.

    a. $a = 0.8$ b. $a = 1.12$ c. $a = 1.4$ d. $a = 1.92$

_____ 8. Solve the following: $3(2x + 3) = 12$.

    a. $x = 0.5$ b. $x = 1.5$ c. $x = 2.0$ d. $x = 3.5$

_____ 9. Solve $4.6(2.5a - 2) = 6.9$.

    a. $a = 1.4$ b. $a = 2.76$ c. $a = 23.0$ d. $a = 3.56$

_____ 10. Solve $5(2.6p + 3.9) = 5$.

    a. $p = -1.1$ b. $p = -3.9$ c. $p = -7.8$ d. $p = -13$

_____ 11. What is the value of x if $5x = 15 + 2x$?

    a. $x = 2.14$ b. $x = 2.5$ c. $x = 3$ d. $x = 5$

_____ 12. Solve for w in $\dfrac{2w}{3} = 12 + \dfrac{2w}{7}$.

    a. $w = 3$ b. $w = 4.5$ c. $w = 31.5$ d. $w = 252$

_____ 13. Solve $4.8s - 7.6 = 1.2s + 15.8$.

    a. $s = 1.37$ b. $s = 2.28$ c. $s = 3.9$ d. $s = 6.5$

_____ 14. What is $3.2e - 5.76 = 11.52 - 1.6e$?

    a. $e = 1.2$ b. $e = 1.8$ c. $e = 3.6$ d. $e = 4.8$

_____ 15. What is $3(5x + 3) = 2(3x + 18)$?

    a. $x = 3$ b. $x = 5$ c. $x = 9$ d. $x = 27$

_____ 16. Brenda got a mark of 18 on her test. This mark was equal to 72%. How many marks was the test worth?

    a. 24   b. 25   c. 30   d. 100