

Chapter Test**Form B****Chapter 2**

Solve each equation. Then check your answer.

1. $x + 15 = 11$
2. $-4x + 7 = -21$
3. $k - 23 = -31$
4. $6w - 13 = 17$
5. $\frac{g}{6} = 9$
6. $9y = 63$
7. $7(x - 2) - 4x = 10$
8. $\frac{1}{3}(h - 7) = 9$
9. $\frac{3y - 3}{8} = \frac{3}{4}$
10. $9(m - 5) = 108$
11. $9a + 7 - 4a = -33$
12. $15.7y - 13.7y = -26$
13. If $-2d + 5 = -31$, what is the value of $3d - 9$?
14. Solve $6x - 7 = -19$. Justify each step.

Solve each formula in terms of the given variable.

15. $w = \frac{y + z}{3}$; z
16. $6x + 7y = 12$; y

Define a variable and write an equation to model each situation. Then solve.

17. The horticulture class is selling hanging baskets. There was originally \$432.10 in the class account. At the end of the sale, the class has \$1324.56 in its account. How much money did the class earn from the basket sale?
18. A local graphic designer charges \$25.00 for creating a T-shirt design and \$12.75 for each shirt printed with that design. If the math club has a bill totaling \$216.25 for T-shirts for its members, how many members purchased shirts?
19. Tickets to the movie theater for three adults and two children cost \$31.00. An adult's ticket costs \$4.50 more than a child's ticket. What is the cost of an adult's ticket?

Solve. If the equation is an identity, write *identity*. If it has no solution, write *no solution*.

20. $5(x + 2) = 5x - 2$
21. $3(d + 7) - d = 2(d + 10)$
22. $4(w - 3) - w = 3(w - 4)$
23. $8w - 10 + w = 14 + 10w + 4$
24. **Open-Ended** Write a word problem that could be solved using the equation $2(5 + w) = 42$.

Algebra Chapter 7 Test Form B

Sandra McMullen Carter

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