

## 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  $2(5 + w) = 42$ .

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