Check It Out
Progress Check
BigIdeasMath ✓com

Solve the equation. Check your solution.   *(Section 2.4 and Section 2.5)*

1. $-6.5 + x = -4.12$

2. $4\dfrac{1}{2} + p = -5\dfrac{3}{4}$

3. $-\dfrac{b}{7} = 4$

4. $2h = -57$

Write the verbal sentence as an equation. Then solve.   *(Section 2.4 and Section 2.5)*

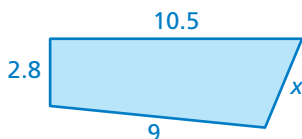**5.** The difference between a number b and 7.4 is -6.8.

6. $5\dfrac{2}{5}$ more than a number a is $7\dfrac{1}{2}$.

7. A number x multiplied by $\dfrac{3}{8}$ is $-\dfrac{15}{32}$.
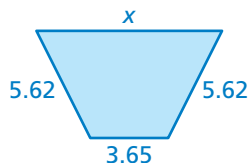
8. The quotient of two times a number k and -2.6 is 12.

Write and solve an equation to find the value of x.   *(Section 2.4 and Section 2.6)*
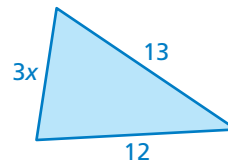
9. Perimeter = 26

10.5
2.8
x
9

10. Perimeter = 23.59

x
5.62   5.62
3.65

11. Perimeter = 33

13
$3x$
12

12. BANKING You withdraw $29.79 from your bank account. Now, your balance is −$20.51. Write and solve an equation to find the amount of money in your bank account before you withdrew the money.   *(Section 2.4)*

13. WATER LEVEL During a drought, the water level of a lake changes $-3\dfrac{1}{5}$ feet per day. Write and solve an equation to find how long it takes for the water level to change -16 feet.   *(Section 2.5)*

14. BASKETBALL A basketball game has four quarters. The length of a game is 32 minutes. You play the entire game except $4\dfrac{1}{2}$ minutes. Write and solve an equation to find the mean time you play per quarter.   *(Section 2.6)*

15. SCRAPBOOKING The mat needs to be cut to have a 0.5-inch border on all four sides.   *(Section 2.6)*

   a. How much should you cut from the left and right sides?

   b. How much should you cut from the top and bottom?

6 in.
9.6 in.
4 in.
7.8 in.