

**1.2 Practice A**

In Exercises 1–6, solve the equation. Check your solution.

1.  $5t + 2 = 12$

2.  $14 = 9 - p$

3.  $\frac{h}{2} + 7 = 10$

4.  $\frac{k - 4}{3} = 3$

5.  $35 = 2b + 5b$

6.  $9f + 4 - 7f = 8$

7. The cost  $c$  (in dollars) of renting a paddle board for  $h$  hours is given by  $c = 25 + 7h$ . After how many hours is the cost \$81?

In Exercises 8–10, solve the equation. Check your solution.

8.  $-3(2r + 7) = 3$

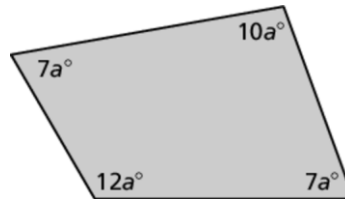
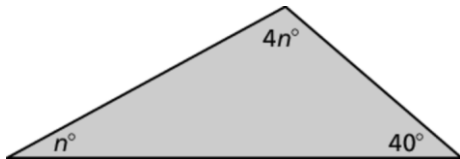
9.  $4 + 6(7 - m) = 4$

10.  $19 = 15w - 4(3w - 1)$

In Exercises 11 and 12, find the value of the variable. Then find the angle measures of the polygon. Use a protractor to check the reasonableness of your answer.

11. Sum of angle measures:
- $180^\circ$

12. Sum of angle measures:
- $360^\circ$



In Exercises 13–16, write and solve an equation to find the number.

13. The sum of 4 and three times a number is 19.
14. The difference of twice a number and 7 is 9.
15. Ten less the quotient of a number and 3 is 6.
16. Five times the sum of a number and 4 is  $-15$ .

In Exercises 17 and 18, write and solve an equation to answer the question. Check that the units on each side of the equation balance.

17. You purchase two bottles of sunscreen and a hat. The hat costs \$6.50. You pay 6% sales tax. You pay a total of \$16.43. How much does one bottle of sunscreen cost?
18. The perimeter of a patio is 64 feet. The width of the patio is 12 feet and the length of the patio is  $(x + 6)$  feet. What is the length of the patio?

## 1.2 Practice B

In Exercises 1–6, solve the equation. Check your solution.

1.  $8 = \frac{t}{-3} + 4$

2.  $\frac{p+5}{-2} = 9$

3.  $3k + 2k = 60$

4.  $-43 = 12 - 6p + p$

5.  $28 = 8b + 13b - 35$

6.  $-11j - 6 + 3j = -30$

7. A bill to landscape your yard is \$720. The materials cost \$375 and the labor is \$34.50 per hour. Write and solve an equation to find the number of hours of labor spent landscaping your yard.

In Exercises 8–11, solve the equation. Check your solution.

8.  $12 - 5(3r + 2) = 17$

9.  $3(x - 2) + 5(2 - x) = 16$

10.  $3 = -1(v - 4) + 4(2v - 9)$

11.  $6(q - 7) - 3(4 - q) = 0$

In Exercises 12–14, write and solve an equation to find the number.

12. Seven plus the quotient of a number and 5 is  $-12$ .

13. The difference of three times a number and half the number is 60.

14. Eight times the difference of a number and 3 is 40.

15. Justify each step of the solution.

$7 - 2(x - 10) = 15$	Write the equation.
$7 - 2(x) - 2(-10) = 15$	
$7 - 2x + 20 = 15$	
$-2x + 27 = 15$	
$-2x = -12$	
$x = 6$	

16. An odd integer can be represented by the expression  $n + 2$ , where  $n$  is any odd integer. Find three consecutive odd integers that have a sum of  $-51$ .