Evaluate each expression for the given value of the variable.

1. $6x + 2$ for $x = 3$  
   \[ 6(3) + 2 = 20 \]

2. $18 - a$ for $a = 13$  
   \[ 18 - 13 + 5 = 10 \]

3. $\frac{1}{4}y$ for $y = 16$  
   \[ \frac{1}{4}(16) = 4 \]

4. $9 - 2b$ for $b = 3$  
   \[ 9 - 2(3) = 3 \]

5. $44 - 12n$ for $n = 3$  
   \[ 44 - 12(3) = 8 \]

6. $7.2 + 8k$ for $k = 2$  
   \[ 7.2 + 8(2) = 23.2 \]

7. $20(b - 15)$ for $b = 19$  
   \[ 20(19 - 15) = 80 \]

8. $n(18 - 5)$ for $n = 4$  
   \[ 4(18 - 5) = 52 \]

Evaluate each expression for the given values of the variables.

9. $2x + y$ for $x = 7$ and $y = 11$  
   \[ 2(7) + 11 = 25 \]

10. $4j - k$ for $j = 4$ and $k = 10$  
    \[ 4(4) - 10 = 6 \]
11. \(9a - 6b\) for \(a = 6\) and \(b = 2\)
   \[
   \frac{9(6)}{4} - \frac{6(2)}{4} = 12
   \]

12. \(5s + 5t\) for \(s = 15\) and \(t = 12\)
   \[
   \frac{5(15)}{2} + \frac{5(12)}{2} = 75 + 60
   \]
   \[
   135
   \]

13. \(7(n - m)\) for \(m = 4\) and \(n = 15\)
   \[
   \frac{7(15 - 4)}{2} \cdot \frac{7(11)}{2} = 72
   \]

14. \(w(14 - y)\) for \(w = 8\) and \(y = 5\)
   \[
   \frac{8(14 - 5)}{2} = \frac{8(9)}{2}
   \]
   \[
   72
   \]

If \(q\) is the number of quarts of lemonade, then \(\frac{1}{4} q\) can be used to find the number of cups of lemonade mix needed to make the lemonade. How much mix is needed to make each amount of lemonade?

15. 2 quarts
   \[
   \frac{1}{4}(\frac{2}{2}) = \frac{1}{2} \text{ cups}
   \]

16. 8 quarts
   \[
   \frac{1}{4}(\frac{8}{2}) = 2 \text{ cups}
   \]

17. 12 quarts
   \[
   \frac{1}{4}(\frac{12}{2}) = 3 \text{ cups}
   \]

18. 18 quarts
   \[
   \frac{1}{4}(\frac{18}{2}) = \frac{9}{2} \text{ or } 4\frac{1}{2} \text{ cups}
   \]

19. If \(m\) is the number of minutes a taxi ride lasts, then \(2 + 0.35m\) can be used to find the cost of a taxi ride with Bill’s Taxi Company. How much will it cost for a 12-min taxi ride? \(\$6.20\)

   \[
   2 + 0.35(12)
   \]
   \[
   2 + 4.2
   \]
   \[
   6.20
   \]