1. The sum of three consecutive odd integers is 69. Find the three integers.
   What are we trying to find?
   How will the unknowns be represented?

   Equation

   Solution

2. The final cost of a meal at a restaurant including a 10% tip and an 8% sales tax was $30.21. Find the cost of the meal.
   What are we trying to find?
   How will we represent the unknown?

   Equation

   Solution

3. Gary worked a 60 hour week. We need to find his hourly rate if he is paid 1½ times his regular pay rate for all hours over a 40 hour week. Last week his gross pay was $591.50. Find his pay rate.
   What are we trying to find?
   How will we represent the unknown?

   Equation

   Solution
4) The Westroads Club has two payment plans for rental of tennis court time. Plan A is $8 an hour plus a flat rate of $10. Plan B is $12 an hour with no flat fee. If time is rented in ½ hour intervals, how long would you have to play so that Plan B is cheaper than Plan A?

What are we trying to find?
How will we represent the unknown b?

Equation

Solution

5) The perimeter of a rectangle of a room in a house is 100 ft. Find the length and width of the room if the length is five more than twice the width. Find the length and width. What are we trying to find?
How will we represent the unknowns?

Equation

Solution
Evaluate

1. \( P = 2l + 2w \) if \( P = 40 \)
   \[ l = 5 \]

2. \( A = \frac{2a + b}{2} \) if \( A = 15 \)
   \[ a = 3 \]
   \[ b = 5 \]

Solve for \( x \)

3. \( 5y - 3x = 15 \)

4. \( A = h(x + 3b) \)

5. \( s = a - b - x \)

6. \( A = 3b - x \)
1. \[40 = 2(5) + 2w \]
\[40 = 10 + 2w \]
\[30 = 2w \]
\[15 = \frac{w}{2} \]

2. \[15 = \frac{2.3 + 5}{c} \]
\[15 = \frac{11}{c} \]
\[15c = 11 \]
\[c = \frac{11}{15} \]

3. \[5y - 3x = 15 \]
\[-5x = -5y + 15 \]
\[x = \frac{-5y + 15}{-3} \]
\[OR \]
\[x = \frac{-5y - 15}{-3} \]

4. \[A = h(x + 3h) \]
\[\frac{A}{h} = x + 3h \]
\[\frac{A}{h} - 3h = x \]

5. \[6 = a - b - x \]
\[5 - a + b = -x \]
\[-5 + a - b = x \]

6. \[A = 3b - x \]
\[\frac{A}{3b} = x \]