1) Sam runs 8 miles before school everyday to train for the big track meet. After school, he also runs at rate of 3 miles per hour. Which function below represents that total miles that Sam runs?

   (a) \( f(x) = 3x + 8 \)
   (b) \( f(x) = 3x - 8 \)
   (c) \( f(x) = 8x - 3 \)
   (d) \( f(x) = 8x + 3 \)

2) Tim earns $10 an hour working at McDonald’s. He also was given a signing bonus when he started of $30. Which equation below represents Tim’s money.

   a) \( f(x) = 10x + 30 \)  
   b) \( f(x) = 10x - 30 \)  
   c) \( f(x) = 30x - 10 \)  
   d) \( f(x) = 30x + 10 \)

3) The table below represents the cost of renting a movie for \( x \) amount of days. Chose which equation matches the table.

<table>
<thead>
<tr>
<th>Days Rented, ( x )</th>
<th>3</th>
<th>6</th>
<th>9</th>
<th>12</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost to Rent, ( y )</td>
<td>22</td>
<td>31</td>
<td>40</td>
<td>49</td>
<td>58</td>
</tr>
</tbody>
</table>

   STAT \( \rightarrow 1: \) Edit \( \rightarrow \) Enter the Values \( \rightarrow \) STAT \( \rightarrow \) Push \( \checkmark \) for CALC \( \rightarrow 4: \) LinReg(ax+b) \( \rightarrow \) Enter

   a) \( y = 22x + 3 \)  
   b) \( y = 3x + 13 \)  
   c) \( y = 6x + 31 \)  
   d) \( y = 9x + 3 \)
4) The table below shows the cost of mailing a letter based on the weight.

<table>
<thead>
<tr>
<th>Ounces of the Package, x</th>
<th>8</th>
<th>12</th>
<th>16</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost to Mail it, y</td>
<td>$1.50</td>
<td>$2.00</td>
<td>$2.50</td>
<td>$3.00</td>
<td>$3.50</td>
</tr>
</tbody>
</table>

a) Write the equation for the table:

5) Jane works as a waitress at the local Diner. Jane is paid a flat rate of $11 on the days she works. In addition to her flat rate, she also earns $3 per hour in tips. Write an equation that represents the amount of money (y) that Jane makes, for working x hours.

6) Joey goes to the amusement to ride as many rides as he can. Each ride costs $5. In addition to paying for each ride, Joey must also pay admission into the park, which costs $12. Which equation below represents the amount of money Joey will spend to ride x rides?
   a) f(x) = 12x + 5
   b) f(x) = 12x - 5
   c) f(x) = 5x + 12
   d) f(x) = 5x - 12

7) Fun Times Music is offering a big promotional sale. The store is selling a grocery bag for $20 - but once you have the bag, any CD that you put into the bag will only cost your $1 more. What a deal! Which equation below represents the cost of buying x CD's?
   a) f(x) = 20x - 1
   b) f(x) = x - 20
   c) f(x) = x + 20
   d) f(x) = 20x + 1