Homework – Scatter Plots

Determine whether each scatter plot shows a positive, negative or no relationship.

1. ![Graph 1]
2. ![Graph 2]
3. ![Graph 3]

Use the following information to answer problems 4-7.

Scientists have determined that there may be a relationship between temperature and the number of chirps produced by crickets. The table gives the temperature and the number of chirps per minute for several cricket samples.

<table>
<thead>
<tr>
<th>Temperature (°F)</th>
<th>Chirps per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>138</td>
</tr>
<tr>
<td>68</td>
<td>97</td>
</tr>
<tr>
<td>75</td>
<td>152</td>
</tr>
<tr>
<td>80</td>
<td>158</td>
</tr>
<tr>
<td>60</td>
<td>81</td>
</tr>
<tr>
<td>75</td>
<td>155</td>
</tr>
<tr>
<td>84</td>
<td>165</td>
</tr>
</tbody>
</table>

4. Make a scatter plot of the data using the grid provided.

5. Does there appear to be a relationship between temperature and chirps? Explain.

6. Suppose the outside temperature is 65°. About how many chirps per minute would you expect from a cricket?

7. Approximate the outside temperature if there were 70 chirps per minute.
8. Which scatter plot shows the relationship between minutes spent walking and calories burned?

A.  
B.  
C.  
D.  

Use the line graph below to answer problems 9 - 13.

9. The independent variable in the line graph is the __________________.

10. According to the graph, what year did Sara sell the fewest number of cookies?

11. What happened to the number of boxes of cookies sold between 2000 and 2001?

12. What could have caused the change in the number of boxes sold between 2000 and 2001?

13. What is the difference in the number of boxes sold between the year with the most boxes sold and the year with the fewest boxes sold?