EOC Review 6 for Scatterplots

1. State what the correlation is for the scatterplot at the right.
   A. positive correlation
   B. negative correlation
   C. no correlation
   D. all of the above

2. State what the correlation is for the situation below:
   Your grades in class and the number of clouds in the sky
   A. positive correlation
   B. negative correlation
   C. no correlation
   D. all of the above

3. Draw a trend line for the scatter plot at the right. Based on the trend line, predict the x value when y = 5. (Use your ID to draw a straight line.)
   A. 3
   B. 4
   C. 6
   D. all of the above

4. Several friends are working to make bracelets. Use the table of values to create a scatterplot. Then draw the trend line, and predict how many bracelets they could make after 20 minutes.

<table>
<thead>
<tr>
<th>Minutes</th>
<th># of Bracelets</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

   A. 2
   B. 5
   C. 7
   D. 10
5. State what the correlation is for the situation below:
The number of pets a person has and the number of trips they make to the pet store
A. positive correlation  
B. negative correlation  
C. no correlation  
D. all of the above

Directions for 6-9: Choose the scatterplot that best represents the relationship described.

6. the distance a person runs and how physically tired that person is
A. Graph 1  
B. Graph 2  
C. Graph 3  
D. Graph 4

7. the price of a new car and the number of hours in a day
F. Graph 1  
H. Graph 3  
G. Graph 2  
J. Graph 4

8. a person’s age and the amount of broccoli the person eats
A. Graph 1  
C. Graph 3  
B. Graph 2  
D. Graph 4

9. the number of cats in a barn and the number of mice in that barn
F. Graph 1  
H. Graph 3  
G. Graph 2  
J. Graph 4

10. State what the correlation is for the situation below:
The number of knots tied in a rope and the length of the rope
A. positive correlation  
B. negative correlation  
C. no correlation  
D. all of the above

11. State what the correlation is for the situation below:
The height of a person and their score on an algebra test
A. positive correlation  
B. negative correlation  
C. no correlation  
D. all of the above

12. State what the correlation is for the situation below:
The number of chicken pox vaccines given and the number of chicken pox cases reported
A. positive correlation  
B. negative correlation  
C. no correlation  
D. all of the above

13. State what the correlation is for the scatterplot at the right.
A. positive correlation  
B. negative correlation  
C. no correlation  
D. all of the above