Mark the event that is more likely.

1.)  ○ A cat will lift an elephant.
     ○ An elephant will lift a cat.

2.)  ○ A boy can jump over a 3-foot high fence.
     ○ A boy can jump over an 8-foot high fence.

3.)  ○ You will fall asleep while standing at a bus stop.
     ○ You will fall asleep while lying in your bed.

4.)  ○ Your parents will win a trip to Paris, France.
     ○ Your parents will not win a trip to Paris, France.

5.)  ○ You will be awake at 12:00 noon.
     ○ You will be awake at 12:00 midnight.
6.) Describe an event and tell whether it would be certain, possible or impossible and why.

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

7.) Write a number in each section of the spinner below so that each of the following events is certain.

The spinner lands on:
- an even number
- a number less than 20
- a 2-digit number

8.) Write a number in each section of the spinner below so that each of the following events is impossible.

The spinner lands on:
- An even number
- A number greater than 20
- A 2-digit number
9.) Look at the spinner above and write the probability of spinning each symbol.

A.) star _____ out of ______

B.) moon _____ out of ______

C.) sun _____ out of ______

10a.) Look at the spinner above. On which color is the spinner most likely to land?

Answer ______________

Explain your thinking. _____________________________________________________
________________________________________________________________________

10b.) How could you change the spinner to make it impossible to land on yellow? Explain your reasoning. ________________________________________________________________
________________________________________________________________________
________________________________________________________________________
11.) Kelly has 3 bracelets, a green one, a blue one and a pink one. She is going to wear 2 of the bracelets because she has to let her little sister wear one. How many different combinations of 2 bracelets could Kelly wear?

Answer ____________________

Show your thinking using pictures numbers or words.

12.) A group of third grade students recorded the following distances that they jumped.

<table>
<thead>
<tr>
<th>23 inches</th>
<th>32 inches</th>
<th>24 inches</th>
<th>28 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 inches</td>
<td>33 inches</td>
<td>25 inches</td>
<td>34 inches</td>
</tr>
<tr>
<td>32 inches</td>
<td>29 inches</td>
<td>34 inches</td>
<td>32 inches</td>
</tr>
</tbody>
</table>

12a.) Make a line plot that organizes the data. Remember to use a title and labels.

12b.) What is the distance that was jumped most often? ________________

12c.) What is the range of these distances?

- [ ] 13
- [ ] 29
- [ ] 32
- [ ] 33
13a.) Use the information in the table above to complete the bar graph below.

<table>
<thead>
<tr>
<th>Score</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>50</td>
</tr>
<tr>
<td>90</td>
<td>120</td>
</tr>
<tr>
<td>85</td>
<td>170</td>
</tr>
<tr>
<td>80</td>
<td>60</td>
</tr>
<tr>
<td>75</td>
<td>10</td>
</tr>
</tbody>
</table>

13b.) How many students had a final test score of 80 or less? _______________

13c.) If a score of 90 and above is an “A” and 80-89 is a “B”, how many more students scored “B” than an “A”? 

Show your work.

Answer _______________
14.) The gumball machine has 10 gumballs; 4 are yellow, 6 are blue, and 10 are red. The gumballs are well mixed inside the machine. Jenny gets 10 gumballs from this machine.

14a.) What is your best prediction of the number that will be red?

   Answer: ____________ gumballs

14b.) Explain why you choose this number.

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
15.) Jan’s Snack Shop has 3 flavors of ice cream: vanilla, chocolate, and strawberry. You order 2 scoops. You want two different flavors of ice cream. How many possibilities do you have to choose from?

List each possibility.

15a.) What is the probability of choosing a combination that includes chocolate?
Answer and Explain: ____________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________