Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Probability: Show What You Know So Far...***

1. Imagine that a new student is about to join the class. Decide which of these statements is *likely*, which is *certain*, which is *unlikely*, and which is *impossible*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Statements** | **certain** | **likely** | **unlikely** | **impossible** |
| The student is the same age as many other students in the class. |  |  |  |  |
| The student is 20 years old. |  |  |  |  |
| The student is a boy. |  |  |  |  |
| The student has a head. |  |  |  |  |
| The student lives in the local area. |  |  |  |  |



1. A marble is picked from this bag.

What is the chance of picking:

1. A green marble? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

yellow

blue

green

yellow

1. A yellow marble? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

green

green

1. A blue marble? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

blue

yellow

green

green



1. Describe or draw what 10 colour tiles you would put in   
   a bag so that the probability of selecting a red one is   
   high, but not certain.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For question 3, above, how many red tiles did you put in your bag? Why did you choose that number?

*I chose \_\_\_\_\_ red tiles because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

1. Could you have chosen a different number of red tiles? Explain your thinking.

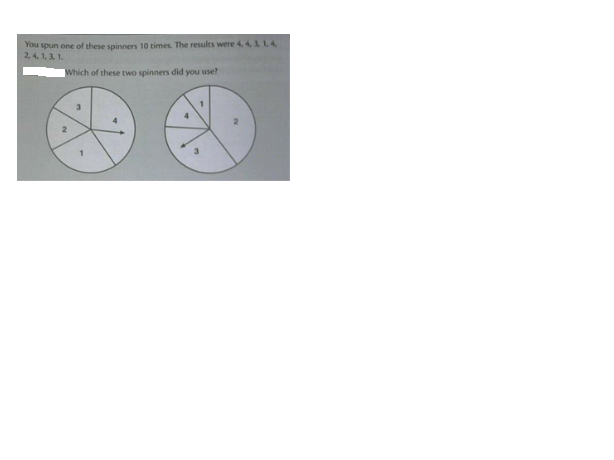
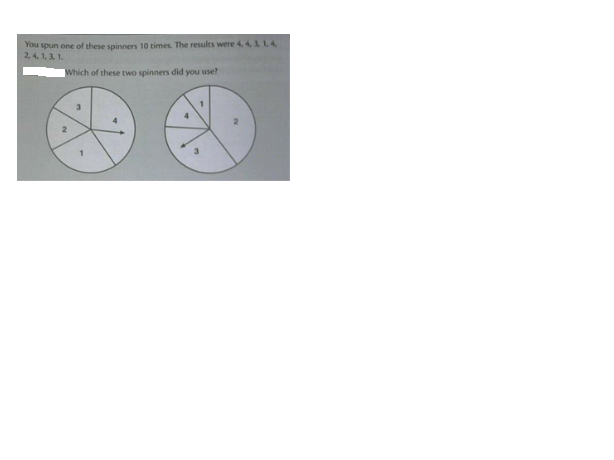
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1. Selver spun one of these spinners 10 times. The results were 4, 4, 3, 1, 4, 2, 4, 3, 1.

Which of these two spinners did she probably use? How do you know?

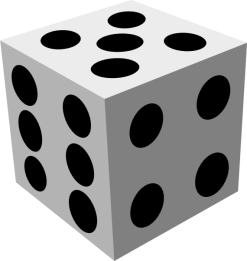
**Spinner A Spinner B**

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1. Use a number cube, a spinner or some cards to create a game that is fair.



Explain how the game works:

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How do you know it is a fair game?

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