

Name _____

Date _____

Making Mathematical Predictions

Read the following facts carefully. Then circle whether you think the events below it are CERTAIN, LIKELY or UNLIKELY to happen.

1. A bag is filled with 8 red marbles, 6 green marbles and 0 black marbles. You reach in without looking...

- a. ...and pull out a marble of any color CERTAIN LIKELY UNLIKELY
- b. ...and pull out a red marble. CERTAIN LIKELY UNLIKELY
- c. ...and pull out a green marble. CERTAIN LIKELY UNLIKELY
- d.and pull out a black marble. CERTAIN LIKELY UNLIKELY

2. The weather forecast is mostly cloudy and 52 degrees with ~~100%~~ chance of rain.

- a. It will rain. CERTAIN LIKELY UNLIKELY
- b. It will snow. CERTAIN LIKELY UNLIKELY
- c. It will be a sunny day. CERTAIN LIKELY UNLIKELY

3. You flip a coin 100 times.

- a. The coin will land on either heads or tails CERTAIN LIKELY UNLIKELY
- b. Heads will come up about half the time. CERTAIN LIKELY UNLIKELY
- c. Heads will come up every time. CERTAIN LIKELY UNLIKELY

4. John bought a bag of 20 jellybeans. There are 5 different colors in the bag: red, green, yellow, purple and orange. John picks out 5 jellybeans without peeking.

- a. One will be orange. CERTAIN LIKELY UNLIKELY
- b. All 5 will be the same color. CERTAIN LIKELY UNLIKELY
- c. The bag contains 4 jellybeans of each color. CERTAIN LIKELY UNLIKELY

Definitions

Likelihood: The chance that something will happen.

Certain: Will definitely happen

Likely: Will probably happen

Unlikely: Will probably not happen
