1. A paper bag contains 18 items: 4 green marbles, 8 green cubes, 2 blue marbles, and 4 yellow cubes. Suppose 1 object is taken from the bag. Describe and justify the probability of each event below, using these probability words:

No chance	Nearly impossible	Unlikely	
(roughly) Even chance	Likely	Almost certain	Guaranteed

- To justify, do NOT calculate any probabilities as numbers: young children don't know fractions in this way. Instead, count favorable vs. unfavorable outcomes and list these counts separately, to compare how close they are.
 - (a) You get a blue marble.
 - (b) You get a marble.
 - (c) You get a green cube.
 - (d) You get a green object.
 - (e) You get an object that's not yellow.
 - (f) You get a red cube.
 - (g) You get an object that's green or yellow.
- 2. Thinking about the paper bag and its contents above, answer each question below. If not possible, explain. Answers can vary!!!
 - (a) How many blue cubes could be added to the bag to have a roughly even chance of getting an object that's blue?
 - (b) How many yellow cubes could be removed from the bag to make it almost certain that you get a green object?
 - (c) How many green objects could be added to the bag to make it impossible to get a blue object?