

Probability - What's in the Bag?



What you need:

- 10 cubes or counters of various colours (of different combinations of 2, 3, 4 or 5 colours)
- Bag to conceal contents

Your teacher will place 10 cubes of different colours in a concealed bag. (Teacher: Do NOT let the student know what the combination is)

Students, one at a time:

1. Take out a cube
2. Record the colour
3. Return the cube to the bag

Repeat this process multiple times and record in the table below: N.B. Pause after the set number of rolls below and guess the number in the bag.

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After the number of rolls
Resume drawing
My guess
(Remember to record your guess)

5	
15	
20	
30	
40	

Tip out the cubes. Check your guesses against what is actually in the bag.

1. Was your guess after 40 drawings correct? _____
2. How did your guesses change as more cubes were drawn? _____
3. When can you be 100% certain that your guess is correct? _____