**Grade 6 Practice Test: Probability Name:**

**Part A**

1. The grade 7’s in division 1 made a graph of their favourite movies.

**Number of Students**

**Movies**

1. How many grade 7’s are in division 1?
2. Each student writes in their favourite movie on a slip of paper and places it in a bag. Their teacher Ms. B draws one slip without looking. Use **words**, **a fraction**, **a decimal**, and **a percent** to describe the probability of each event.
* Ms. B draws Big Hero 6.
* Ms. B draws The Jungle Book.

* Ms. B draws Zootopia.
1. Eric rolls an octahedron labelled A, B, B, B, C, C, C, C.

B

C

C

B

C

B

A

C

What’s the probability the octahedron will land on each letter? Express your answers in both fractions and percentage.

A: 1/8, 12.5%

B: 3/8, 37.5%

C: 4/8, 50%

**Part B**

1. Jeannie has a jar filled with pennies. The jar has 100 pennies. Suppose she selects a penny from the jar without looking. There is a 40% chance that she will draw a penny from the 1970s. How many pennies from the 1970s are in Jeannie’s jar? Explain your thinking.
2. \*\*Difficult\*\* There are 20 blue tiles, 32 red tiles, and 18 green tiles in a bag.
3. Suppose you plan to conduct this experiment 50 times:

How many tiles of each colour do you *expect to get*?

1. Andrea conducted the experiment by drawing a tile and putting it back into the bag again. She drew a red tile 60 times out of 70. Did Andrea do something wrong? Explain.

**Part C**

1. Suppose you are playing a game.

You have a number cube with faces labelled: 1, 2, 3, 5, 5, 6

You have a regular octahedron with faces labelled: 1, 1, 2, 2, 2, 3, 3, 3

To win a prize, you must roll an odd number.

1. Which solid would you roll? Use words and a number line to help explain your answer.

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1. John was asked to do the same activity, but instead of putting in the work to figure out the answer using probability, he randomly chose a solid. He rolled it 100 times and got an odd number 50 times. Is it possible to find out which solid he rolled? Yes or no? Explain your answer below.