

NAME: _____

Learn the Skill # 1



THEORETICAL PROBABILITY

The following teams belong to the Northeast Division of the NHL: Boston Bruins, Buffalo Sabres, Montreal Canadiens, Ottawa Senators, and the Toronto Maple Leafs. Using the list above, answer the following questions with a fraction.

- a) What is the probability of the Boston Bruins winning the Stanley Cup?

- b) What is the probability of an American team winning the Stanley Cup?



Learn the Skill # 2



A box contains ten baseball items: 5 items are baseballs, 2 items are helmets, 2 items are baseball bats, and 1 item is a glove.

If you randomly chose an item on the box:

- a) what item are you most likely to get? _____

- b) what item are you least likely to get? _____





Learn the Skill # 3

NAME: _____

THEORETICAL PROBABILITY

The Museum of Science for Children has the following game in the probability room. Students press a button releasing a disc. The disc falls on one of the numbers on the game board to the right.

1	2	3	4	5
6	7	8	9	10

What is the probability that a student will:

- a) land on a blue square? _____
- b) land on a green square with an even number? _____



Learn the Skill # 4

Chase caught 12 fish, 8 of which were rainbow trout. What is the probability that the next fish Chase will catch will be a rainbow trout?



NAME: _____

Learn the Skill # 5



THEORETICAL PROBABILITY

Mr. Gomez asked all 20 students in his class what their favorite colors are. 10 answered blue, 5 answered green, 3 answered red, and 2 answered yellow. If Mr. Gomez asks the 18 students in Mrs. Johanson's class what their favorite colors are, how many do you predict will answer blue?

_____ students

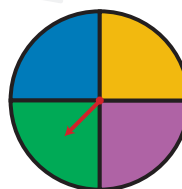


Learn the Skill # 6



Olivia spins the spinner and picks one of the cards in the image to the right. How many different outcomes are possible?

_____ possible different outcomes





Learn the Skill # 7

NAME: _____

THEORETICAL PROBABILITY

Roll a standard 6-sided die 10 times. Record your outcomes in the chart below, then answer the following questions.

ROLL	OUTCOME	ROLL	OUTCOME
1		6	
2		7	
3		8	
4		9	
5		10	

Based on the outcomes above, what is the probability that the next 5 rolls will show:

- a) a 3? _____
- b) a 5? _____
- c) an odd number? _____



Learn the Skill # 8

Roll a standard 6-sided die with a partner 5 times. Record your outcomes in the chart below, then answer the following questions.

ROLL	STUDENT 1 OUTCOME	STUDENT 2 OUTCOME
1		
2		
3		
4		
5		

What is the probability of:

- a) Student 1 rolling a 5? _____
- b) Student 2 rolling a 1? _____
- c) both students rolling an even number? _____