

May 4, 2015

5th
6th

Get out your homework



Liberal

5/4 Experiments/Outcomes/Events

An **experiment** is an investigation or a procedure that has varying results. The possible results of an experiment are called **outcomes**. A collection of one or more outcomes is an **event**. The outcomes of a specific event are called **favorable outcomes**.

For example, randomly selecting a marble from a group of marbles is an experiment. Each marble in the group is an outcome. Selecting a green marble from the group is an event.

Possible outcomes



Event: Choosing a green marble

Number of favorable outcomes: 2



Experiment: Roll a die

There are 6 possible outcomes.

Out of 20 rolls, you think you will roll a 1 3-4 times.

Event: Roll a die 20 times. Tally your outcomes in a table.
How close was your guess? How many favorable outcomes were there?

roll	#	roll	#
1	5	11	2
2	3	12	3
3	6	13	2
4	4	14	2
5	1	15	5
6	5	16	3
7	3	17	6
8	2	18	6
9	2	19	1
10	4	20	6



Experiment: Flip a coin

There are 2 possible outcomes.

Out of 20 flips, you think you will flip heads 10 times.

Event: Flip a dime 20 times. Tally your outcomes in a table.
How close was your guess? How many favorable outcomes where there?



#	H/T	#	H/T
1	T	11	H
2	T	12	T
3	H	13	H
4	H	14	H
5	T	15	H
6	T	16	T
7	T	17	H
8	H	18	H
9	H	19	T
10	H	20	H



Work with a partner. Use the spinner to the left.

a. Do you have a better chance of spinning an even number or a multiple of 4? Explain your reasoning.

↪ 5 even #s ↪ 2 multiples of 4

Even, since there are more favorable outcomes

$$5 > 2$$

b. Do you have a better chance of spinning an even number or an odd number? Explain your reasoning.

Equal chance = there is the same # of each


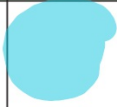



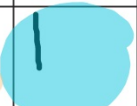


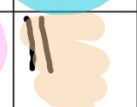
Rock-Paper-Scissors

Work with a partner.

a. How many possible results are there? 9

b. Of the possible results, in how many ways can Player A win? Player B win? the players tie?

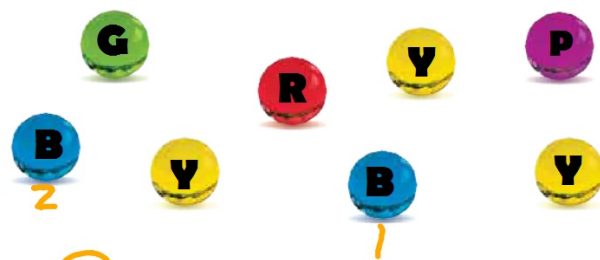
3 3 3

		Henry (Player A)		
Noah (Player B)	Rock			
	Paper			
	Scissors			

c. Does one of the players have a better chance of winning than the other player? Explain your reasoning.

d. Play Rock Paper Scissors ~~30~~¹⁰ times. Tally your results in the table.

**Randomly chose one of these
marble out of a bag**



a. How many possible outcomes are there?

8

b. In how many ways can choosing blue occur?

2

c. In how many ways can choosing *not* yellow occur? What are the favorable outcomes of choosing *not* yellow?

5

Red, Green, Blue, Purple, Blue

Homework

Pink WS3

Due Tuesday