

May 4, 2015 5th
6th

Get out your homework



Liberal

Stats				Chrome books
Sage	Sage	Sage	Notes	Baby Pics
1	2	3	District	Final
X	4	5	6	7
8	Final			

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



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	H	11	T
2	T	12	T
3	H	13	T
4	T	14	H
5	T	15	T
6	H	16	H
7	T	17	H
8	H	18	H
9	T	19	H
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 possibilities: 2, 4, 6, 8, 10

2 outcomes: 4, 8

Evens has a better chance!

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

Same chance since there are 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

Rock breaks scissors.
Paper covers rock.
Scissors cut paper.

		Player A		
		R	P	S
Player B	R	6	4	6
	P	2	3	0
	S	0	4	5

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

No, chances are equal

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

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



- a. How many possible outcomes are there?
- b. In how many ways can choosing blue occur?
- c. In how many ways can choosing *not* yellow occur? What are the favorable outcomes of choosing *not* yellow?

Homework

Due