

3-14-19

Aim: SWBAT be introduced to probability.

HW: Packet Page 3

Do Now:

$$\frac{3}{3} \rightarrow 100\%$$

100% of students  
at FFMS Love  
chocolate icecream

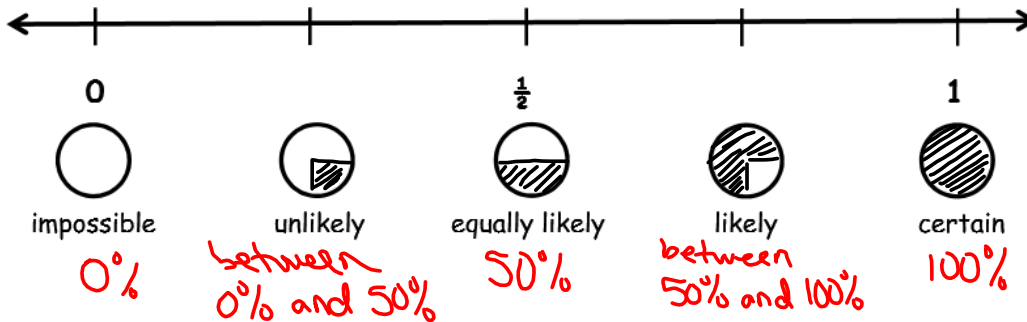
$$\frac{6}{16} \rightarrow 37\%$$

Biased  
unfair

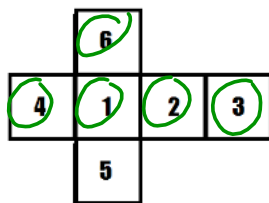
Aim: SWBAT be introduced to probability.

Probability is the possibility that an event will occur.

Answers to probability questions can be described with words and/or numbers.



1. On a standard number cube, there are 6 **outcomes** or possible results of the **event** that can occur when it is tossed.



Outcome	Numbers that are part of the outcome	Probability
Number less than 10	{1, 2, 3, 4, 5, 6}	$\frac{6}{6}$ 100% certain
Number 7	{ }	$\frac{0}{6}$ 0% impossible
Even number	2, 4, 6	$\frac{3}{6}$ 50% equally likely
Factor of 12	1, 2, 3, 4, 6	$\frac{5}{6}$ likely
Number 5 or 6	5, 6	$\frac{2}{6}$ unlikely

2. The names Jessica, Joshua, Jill, and Jimmy are written on slips of paper. The slips of paper are placed in a bag. One name is picked.

Probability	Outcome
Impossible	Georgina
Certain	a name that starts w/ J
equally likely As likely as not	Jessica + Josh, a girl's name
More likely than not	names that have an "i"

3. A bag has 24 marbles: 6 green, 6 red, and 12 blue. Lucy reaches into the bag and picks out 1 marble.

Probability	Outcome
Impossible	a pink marble
Certain	a green, red, or blue marble
As likely as not	green or red
More likely than not	blue or red
Less likely than likely	green

4. Imagine that these cards are face down, and you pick one.



Probability	Outcome
0	
1	
$\frac{1}{2}$	
Between 0 and $\frac{1}{2}$	
Between $\frac{1}{2}$ and 1	

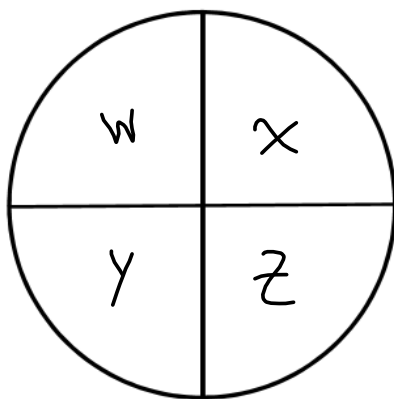
5. A weatherman in Seattle says there is a 75% chance of rain. A weatherman in Tacoma says there is a  $\frac{1}{4}$  chance of rain. In which city is it more likely to rain? Explain how you know.

6. For each number shown, describe the probability in words.

- 0 \_\_\_\_\_
- $\frac{7}{8}$  \_\_\_\_\_
- $\frac{1}{3}$  \_\_\_\_\_
- 1 \_\_\_\_\_
- $\frac{1}{2}$  \_\_\_\_\_

## HOMEWORK

1. Kelly said that because there are four equal-sized sections on the spinner below, the probability of the spinner landing on X is as likely as not.



Explain why Kelly is wrong.

2. Construct a spinner with the following characteristics:

It is certain to land on blue, yellow, green, or red.

It is twice as likely to land on red than green.

It is equally likely to land on blue or green.

It is more likely to land on yellow than not land on yellow.

