

By the end of this lesson you will be able to _____.

What is Probability? _____.

What three ways can probability can be represented?

What values represent Certain, As Likely As Not, or Impossible?

Certain			
As Likely As Not			
Impossible			

Example 1: Shooting Baskets

Hank shoots a basket 20 times during practice. He made 15 of the shots he took. What is the experimental probability that he will make his next shot?

What ratio can we set up to solve this problem? _____

How many shots did he make? _____

How many shots did he take? _____

What is the probability he will make his next shot...

As a fraction? _____ As a decimal? _____ As a percent? _____

If Hank decides to shoot 30 more times, how many shots is he expected to make?

QUESTION: What is _____% of _____ shots?

What operation will you use to solve? _____

Answer in completed sentence. _____

Example 2: Rolling a Die

Julius rolled a 6-sided die and recorded the results in the table. What was the experimental probability that he rolled a 5?

Number on Cube	Frequency
1	
2	
3	
4	
5	
6	

What is the ratio we can use to set up the problem? _____

How many occurrences came up with the 5? _____

How many trials were there? _____

How did you get this number? _____

What was the experimental probability he rolled a 5...

As a fraction? _____ As a decimal? _____ As a percent? _____

If Julius decides to roll the die 18 more times, how many times would he expect to land on 5?

QUESTION: What is _____ of _____ rolls?

What operation will you use to solve? _____

Answer in completed sentence. _____

Your Turn to Practice. [Fill in each problem by writing in the correct values from the video.]

Find the experimental probability of each event below. Write as a fraction, decimal, and a percent.

- 1) If a car factory checks _____ cars and _____ of them have defects, what is the probability the next check will have a defect?
- 2) In ten frames of bowling, Hillary was able to get a strike 3 times. What is the experimental probability that she will not get a strike if she bowls 20 more times?
- 3) You plant _____ African violet seeds and _____ of them spout. Use experimental probability to predict how many seeds will spout if you plant _____ seeds.