

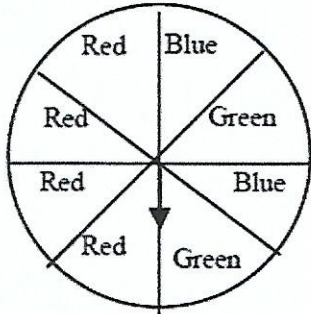
Name: **ANSWER KEY**

9N2 – Probability REVIEW

Date:

Class:

Directions: Solve each problem by determining the probability that the event will occur. Give the fraction, percent and likelihood that an event will occur.



	Fraction	Percent	Likelihood? (Circle One)
1. P(Red)	$\frac{4}{8} = \frac{2}{4} = \frac{1}{2}$	50%	Impossible Equally Likely Unlikely Likely Certain
2. P(Green)	$\frac{2}{8} = \frac{1}{4}$	25%	Impossible Equally Likely Unlikely Likely Certain

- a. Which color(s) is the spinner least likely to land on? blue or green
- b. Which color(s) is the spinner most likely to land on? red

You toss a dice 60 times and recorded the results in the table below.

# on dice	Results
1	
2	
3	
4	
5	
6	

Calculate the THEORETICAL PROBABILITY of the following:

P(1) $\frac{1}{6}$ P(2) $\frac{1}{6}$ P(not 3) $\frac{5}{6}$

Calculate the EXPERIMENTAL PROBABILITY of the following:

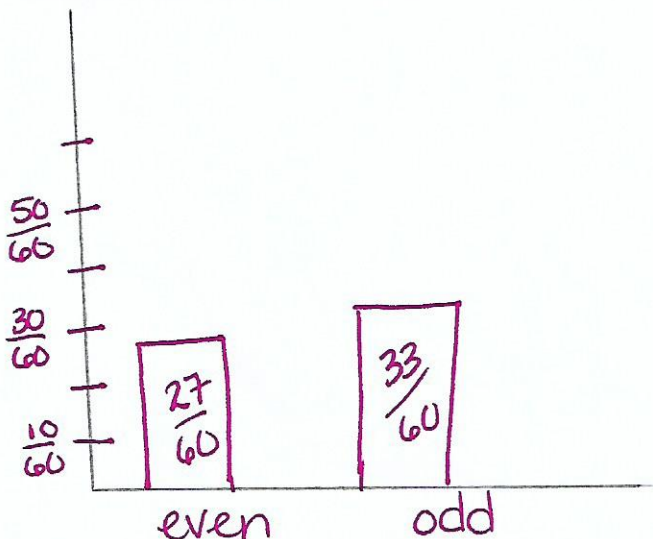
P(4) $\frac{10}{60} = \frac{1}{6}$ P(5) $\frac{12}{60} = \frac{1}{5}$ P(even number) $\frac{27}{60} = \frac{9}{20}$

What number had an experimental probability that matched the theoretical probability?

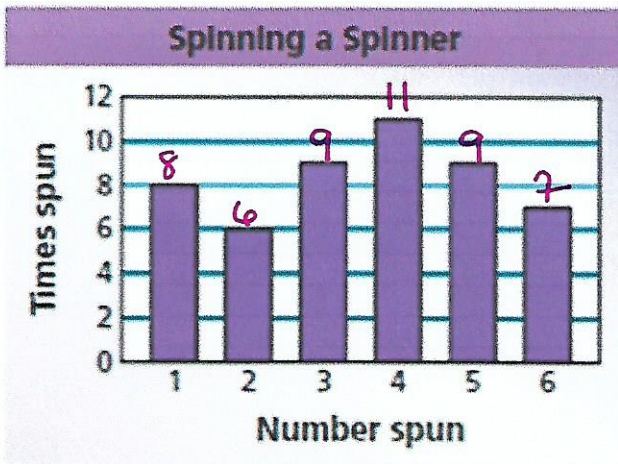
4 because

theoretical and experim... both equal $\frac{1}{6}$.

Graph the experimental probability of rolling an even number



Use the bar graph to find the experimental probability of the event.

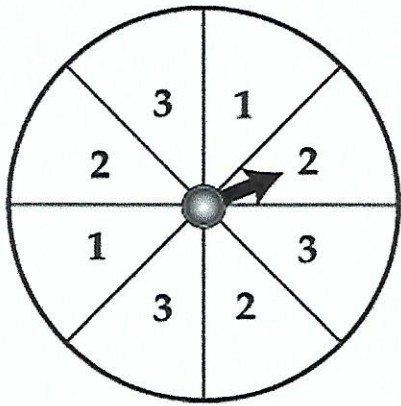


1. Spinning a 4 = $\frac{11}{50}$

2. NOT spinning a 2 = $\frac{44}{50} = \frac{22}{25}$

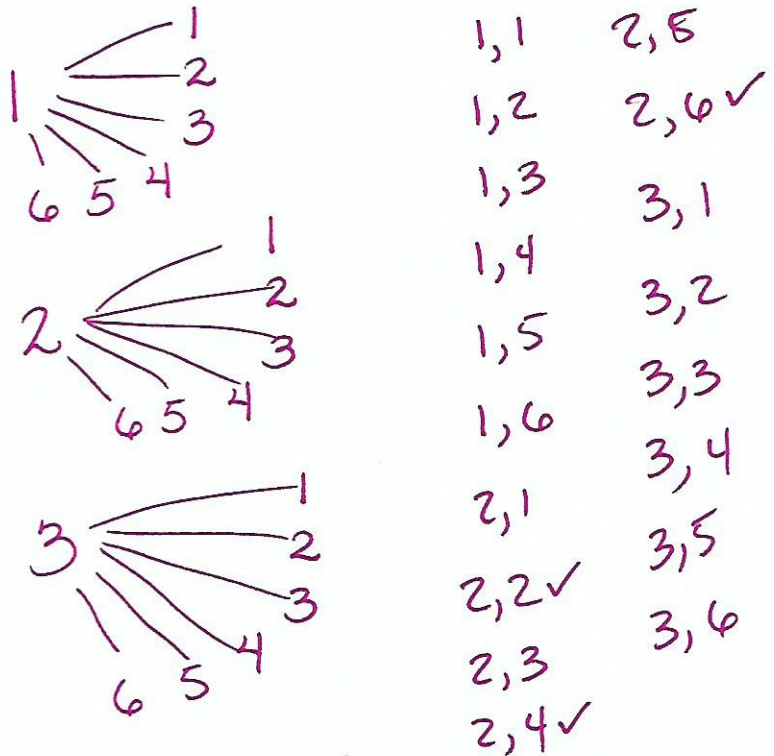
3. Spinning a 1 or a 3 = $\frac{17}{50}$

9N2.2 – 2.3



You spin the spinner AND roll a number die with the numbers 1-6.

Create a TREE DIAGRAM to display all possible outcomes



How many possible outcomes are there?

18 outcomes

What is the probability of getting an even number on the spinner and the number cube?

$$\frac{3}{18} = \frac{1}{6}$$

SCORE

9 N 2.1				9 N 2.2				9 N 2.3							
NA	E	D	M	NA	E	D	M	NA	E	D	M				
NA = Not Achieved				E = Emerging				D = Developing				M = Mastery			