

Name: _____

Date: _____ Per: _____

**** This is a 2-page document! ****

Give each probability as a simplified fraction, decimal, and percent.

1. A number between 1 and 3 is chosen 30 times. Results are shown in the table below.

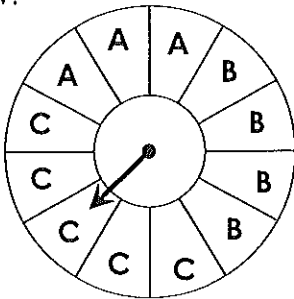
Result	Frequency
1	8
2	12
3	10

a) Find and compare the theoretical probability and experimental probability of choosing a 2.

Theoretical: _____ Experimental: _____

Compare:

2. The spinner below is spun 60 times. Results are shown in the table below.



Result	Frequency
A	18
B	20
C	22

a) Find and compare the theoretical probability and experimental probability of spinning an A.

Theoretical: _____ Experimental: _____

Compare:

b) Find and compare the theoretical probability and experimental probability of not spinning an A.

Theoretical: _____ Experimental: _____

Compare:

3. A member of a soccer team is chosen at random 40 times. Results are shown in the table below.

Result	Frequency
Ellie	3
Gavin	4
Jacob	6
Logan	5
Natalie	4
Emma	6
Reese	2
Joseph	3
David	5
Kevin	2

a) Find and compare the theoretical probability and experimental probability of Reese being chosen.

Theoretical: _____ Experimental: _____

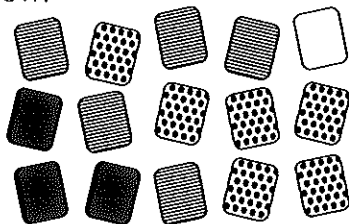
Compare:

b) Find and compare the theoretical probability and experimental probability of a boy being chosen.

Theoretical: _____ Experimental: _____

Compare:

4. A card from the following set is chosen at random 120 times. Results are shown in the table below.

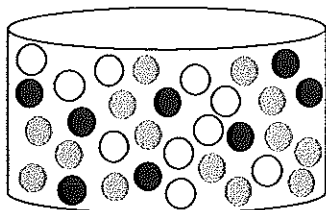


Result	Frequency
Solid	18
Stripes	42
Dots	50
White	10

a) Theoretically, if a card is chosen 200 times, how many times would you expect to pick a card without stripes?

b) Based on the experiment, if a card is chosen 200 times, how many times would you expect to pick a card without stripes?

5. A marble is picked from the jar 60 times. Results are shown in the table below.

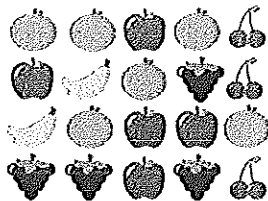


Result	Frequency
White	20
Gray	28
Black	12

a) Theoretically, if a marble is chosen 150 times, how many times would you expect a gray marble?

b) Based on the experiment, if a marble is chosen 150 times, how many times would you expect a gray marble to be chosen?

6. A piece of fruit was selected from a basket 40 times. The results are shown in the table below.



Result	Frequency
Orange	15
Apple	8
Banana	4
Grape	5
Cherry	8

a) Theoretically, if a piece of fruit is chosen 300 times, how many times would you expect to pick an apple or a banana?

b) Based on the experiment, if a piece of fruit is chosen 300 times, how many times would you expect an apple or a banana?