							1		
Name: _					4 Unit &: Pr	robability & Statistics		#(
Date:			P	er:	Homewo	ork 3: Theoretical vs. Ex Probability	kperiment	al	
		<u> </u>	** This i	s a 2-page	documen	t! **			
Give ea	ch probab	oility as a sim	plified fr	action, dec	imal, and	percent.			
chose		een 1 and 3 s. Results are ow.		1 *	•	re the theoretical prob bability of choosing a 2	•		
	Result 1 2	Frequency 8 12		Theoretica Compare:		Experimental:		,	
3 10 2. The spinner below is spun 60 times. Results are shown in the table				a) Find and compare the theoretical probability and experimental probability of spinning an A.					
below	A A	A B		Theoretico		Experimental:			
ļ	CCC	C B			•	re the theoretical prob bability of not spinning			
	Result A B C	18 20 22		Theoretica Compare:		Experimental:			
3. A member of a soccer team is chosen at random 40 times. Results are shown in the table below.				a) Find and compare the theoretical probability and experimental probability of Reese being chosen.					
	Result	Frequency]	The second of	.l.	Evnerimental:			
	Ellie	3		Ineoretico	H:	Experimental:			
	Gavin	4		Compare:					
	Jacob	6							
	Logan	5		b) Find an	d compa	re the theoretical prob	ability and		
	Natalie	4]			bability of a boy being			
	Emma	6			. 1	, , ,			
	Reese	2	1	T1	ul.	المالية والمالية والمالية المالية			
	Joseph	3]	Ineoretico	ม:	Experimental:			
	David	5	1	Compare:					
	Kevin	2	-						
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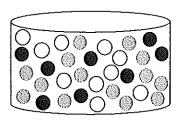
4. A card from the following set is chosen at random 120 times. Results are shown in the table below.



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?