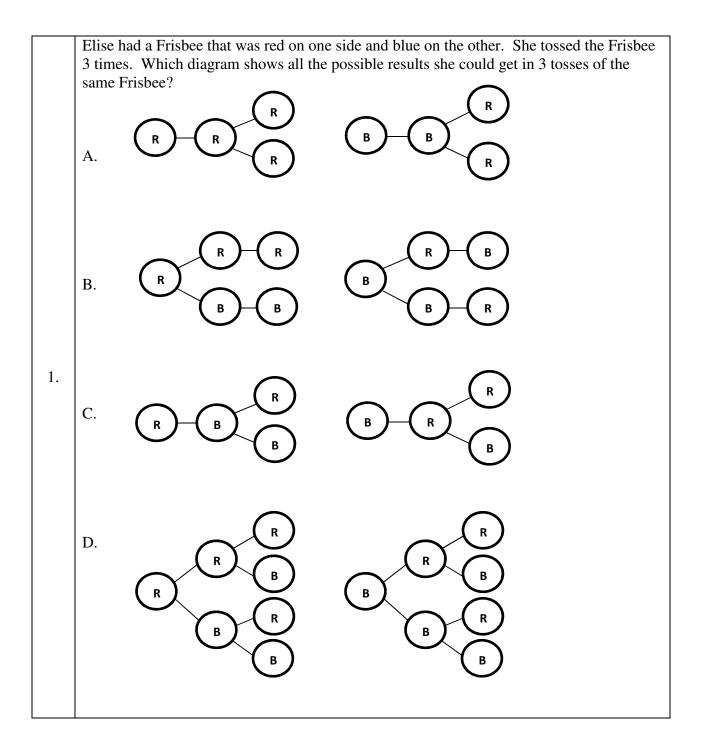
Name:

Show all work on a separate sheet of paper.



2.	hair, 4 have r	udents have brown ck hair. If Mr. stion, what is the						
	A. $\frac{1}{2}$	$B. \frac{1}{6}$	C. $\frac{1}{8}$ D.	$\frac{1}{24}$				
	How many d	ifferent ways can thes be used first?	e 4 objects be arrang	ed in a row if the				
3.	$\bigcirc \land \square \circlearrowright$							
4.	scored 24 or probability th							
	A. $\frac{1}{24}$ B. $\frac{1}{12}$ C. $\frac{1}{8}$ D. $\frac{1}{3}$							
	The table below shows the ice cream preferences of 40 people.							
		Favorit	te Ice Cream					
		Color	Number of Students					
		Cookie and Cream	12]				
5.		Chocolate Chip	6					
		Vanilla	9					
		Strawberry	8	-				
		Butter Pecan	5]				
	What is the probability that one student selected at random prefers chocolate chip ice cream?							
6.	In the problem above, how many students would you expect to choose strawberry if you asked 100 students?							

Max has eight different colors of socks he can wear: white, black, gray, purple, brown, yellow, green, and blue. Use this information for the questions below. (Write answers in simplest form.)					
7.	If he selects a color of sock at random, what is the probability it will be black or gray?				
8.	If he selects a shirt at random, what is the probability it will be a color with the letter E somewhere in it?				
9.	 9. Use a tree diagram to find how many combinations can be made from Max's eight colored socks and two different pairs of shoes: tennis or dress shoes. 				

	A snow cone stand sells small, medium, and large snow cones. You can choose from					
	grape, strawberry, or orange flavor. Make a tree diagram and list all of the different cones you can choose from in the space below.					
	grape, strawberry, or orange flavor. Make a tree diagram and list all of the different cones					
	you can choose from in the space below.					
10.						
10.						

Suppose you choose one of the cards shown without looking. Find the probability of each event.

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	5	24	
	15	48	
	35	72	
			$\overline{\ }$

11.	P(48)	12.	P(Divisible by 5)	
13.	P(Greater than 25)	14.	P(Less than 3)	
15.	P(15 or 35)	16.	P(Not 72)	
17.	P(Between 1 and 100)	18.	P(Multiple of 4)	

	Brian has a 5 digit combination lock on his bicycle. He knows that the first four numbers are as listed below.							
19.		6	3	2	1			
	The digits may be repeated. How many numbers must Brian try before he is sure to open the lock on his bicycle? A. 10 B. 12 C. 336 D. 1000							
20.	Don tossed a coin 100 times and got heads 42 times. Based on Don's experiment, what is the experimental probability of heads? Please write your answer as a fraction in simplest form.							
21.	Using the information in the problem above, what is the experimental probability of tails? Please write your answer as a fraction in simplest form.							