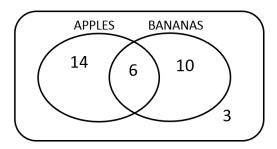
Name:			Period: _			
Practice Quiz 8ABC	Integrated Math 2					
Answer the questions thoroughly including any necessa	ry math or explo	anations.				
1) Given a standard 6 sided number cube (a die), answer the following questions:		2) A goblet contains 8 red marbles, 14 green marbles, and 11 blue marbles. If we choose a marble, then another marble without putting the first one back in the goblet, what is the probability that the first marble will be blue and the second will be red?				
a) What is the sample space?						
b) What is the probability of rolling a multiple of 2?						
3) Use the two way frequency table to find the probabilities:						
a) P(wearing yellow and not having blue eyes)			Not Wearing			
		Wearing Yellow	Yellow	Totals		
	Blue Eyes	10	2	12		
b) P(have blue eyes)	Not Blue Eyes	30	20	50		
	Totals	40	22	62		

c) P(not wearing yellow given they have blue eyes)

4) The National Honor Society was asked to vote for which snack they would like at their next meeting. Use the Venn diagram to fill in the table with labels <u>and</u> numbers.



		TOTAL
TOTAL		33

5) Given that Event A and B are independent:

P(A)=0.80 and P(B)=0.14, then P(A | B)=

P(A)=0.29 and P(B)=0.42, then P(A and B)=

P(A)=0.58 and P(B)=0.35, then P(B|A)=

6) The probability that Sammy plays basketball is 0.46. The probability that he plays basketball and lifts weights is 0.28. Find the probability that Sammy lifts weights given he plays basketball.

FORMULAS

$$P(A \text{ or } B) = P(A) + P(B)$$

$$P(A \text{ and } B) = P(A) \cdot P(B)$$

$$P(A \mid B) = \frac{P(A \text{ and } B)}{P(B)}$$