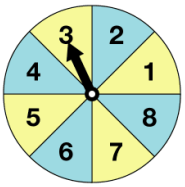
Geometry Probability Review Name: _____ Block:___

1. List the sample space for the spinner.  	2. Find the intersection of A and B. A = {1,2,3,4,5,6,7,8,9} B = {3,6,9,12,15,18}	3. *Which is a subset of M?* *M = {0,1,2,3,4,5,6}* *A = {0,2,4,6}* *P = {1,3,5,7}* *R = {1,2,3,4,5,6,7,8}*
4. Michael owns fifteen pairs of pants and 80 polos. How many different outfits can he choose from?	5. A fruit bowl contains 4 green apples 7 red apples, and 3 yellow apples. What is the probability that a randomly selected apple will be green or yellow?	6. Samantha rolls a die, what is the likelihood that she rolls an odd number or a number larger than 2?

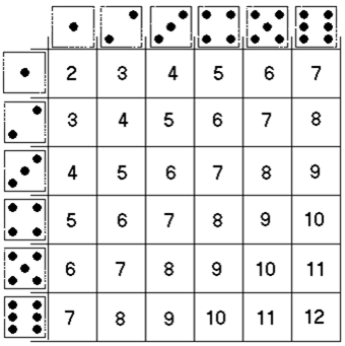
7. P(double) _____

8. P(a sum less than 5) **or** P(even sum) _____

9. P(sum of 11) **or** P(sum less than 4) _____

10. P(double) **or** P(even sum) _____

11. P(double) **or** P(odd sum) _____



	⚀	⚁	⚂	⚃	⚄	⚅
⚀	2	3	4	5	6	7
⚁	3	4	5	6	7	8
⚂	4	5	6	7	8	9
⚃	5	6	7	8	9	10
⚄	6	7	8	9	10	11
⚅	7	8	9	10	11	12

A math teacher at EPHS was interested to see how many students like each subject.

	Math	English	Social Studies	
Male	35	15	50	
Female	40	20	30	

12. Find P(Social Studies) _____

13. Find P(Social Studies)' _____

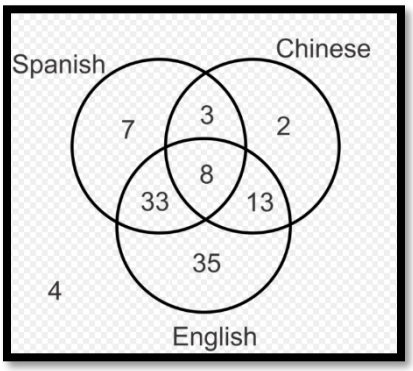
14. Find P(Female | Math) _____

15. Find P(Math | Female) _____

16. Find P(Male ∩ Social Studies) _____

17. Find P(Male ∪ Social Studies) _____

Use the Venn diagram to find the following probabilities.



18. P(Chinese) _____

19. P(Spanish $\cap$ Chinese) _____

20. P (Spanish $\cup$ Chinses) _____

21. P($\overline{\text{Spanish} \cup \text{Chinese}}$) _____

Questions 22-25. Decide if each set of events is independent or dependent.

22. P(A) = 0.5; P(B) = 0.3; P(A $\cap$ B) = 0.125 _____

23. P(A) = $\frac{1}{2}$; P(B) = $\frac{2}{5}$; P(A $\cap$ B) = $\frac{1}{5}$ _____

24. A boy chooses a marble from a bag, puts it back in the bag, then chooses a second marble. _____

25. A girl chooses a marble from a bag, does not put it back in the bag, then chooses a second marble. _____

Using the letters in DALLAS:

26. Find the probability of picking an A and then another A with replacement. _____

27. Find the probability of picking an A and then another A without replacement. _____

28. Find the probability of picking a L and then a A with replacement. _____

29. Find the probability of picking a L and then a A without replacement. _____

A jar contains 7 red, 5 green, 2 blue, and 6 yellow marbles.

30. What is the probability of chosing a green and then a red marble with replacement. _____

31. What is the probability of chosing a green and then a red marble without replacement. _____

32. What is the probability of chosing a blue and then a red marble without replacement. _____

33. What is the probability of chosing a blue and then anohter blue marble without replacement. _____
