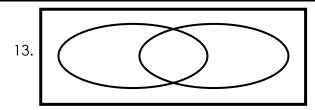
GSE Geometry Name:	Unit 8 – Pr	•	_ Date:							uide ——	
UNIT 8 TEST REVIEW											
In a bowl of marbles, there ar	e 10 red ones, 6 gr	een ones, ar	nd 8 blue	ones.							
1. If a marble is chosen at random from the bowl, find P(red one or a blue one)?											
2. If two marbles are chosen at random with replacement, find P(red and a blue)?											
3. If two marbles a find P(they are b		om without re	eplaceme	ent,							
A person rolls two dice, one after the other.					1	2	3	4	5	6	
4. P(even sum) or P(sum of 9)											
5. P(odd sum) <b>or</b> P(sum less than 5)											
5. F(odd som) <b>or</b> F(som less man 5)											
6. What is the probability that the sum of two rolls is an even number <b>given</b> at least one of the rolls is a 4?											
is an even nomber <b>given</b> at least one of the folists a 49											
A card is chosen from a stanc	dard deck of cards	. The drawer	is looking	g for c	club	s ai	nd f	ace	e co	ards.	
	Club	Not a C	'lub								
Face card	Club 3	Not a C	JUD						_		
Not a face card	10	30							_		
7 Find P(Club)											
7. Find P(Club)											
8. Find P(Club   No	ot a Face Card)										
9. Find P(Club ∩ F	ace Card)										
10. Find P(Not a Clu	b∪ Not a Face C	Card)									
11. Are the events 0	Club and Not a Fac	ce Card Inde	pendent	of ec	ıch	oth	er?				
12. In a Coordinate female. Out of	Algebra class, 22 s those students, 11									CT. If	

a person is chosen at random from the class, what is the probability of choosing a girl or a person that did NOT pass the EOCT? Not

Pass Pass Male Female



Of 500 athletes surveyed, 300 were male and 20 were lefthanded. Only 8 of the lefthanded athletes were female.

14. What is the probability that an athlete was male or was left-handed?

In a survey of 450 people, 200 of whom are female, it was found that 225 prefer chocolate ice cream including 99 males. Use this information to complete the table below.

	Males	Females	
Vanilla			
Chocolate			
			450

## Find the probability that:

- 15. The person likes chocolate.
- 16. The person likes vanilla, given they are male.
- 17. The person likes vanilla or is a female.
- 18. Are being a male and liking chocolate independent events?

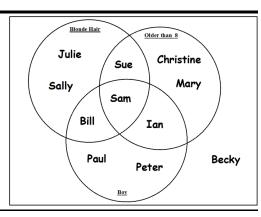
Use the Venn diagram to find the following probabilities.

19. P(blonde hair)

20. P(blonde hair  $\cap$  Boy)

21. P(Older than  $8 \cup Boy$ )

22. P(Older than  $8 \cup Boy$ )'



- 23. The probability of a randomly chosen boy playing basketball is 0.30. The chance that a boy plays both basketball and football is 0.05. The chance that a boy plays football is 0.25. What is the probability that a randomly chosen boy plays basketball or football?
- 24. Assume that the following events are dependent:
  - The probability that a high school student eats breakfast is 0.8.
  - The probability that a high school senior will eat breakfast and get over 6 hours of sleep is 0.2.

What is the probability that a high school senior will get over 6 hours of sleep, given that the person ate breakfast?