_____ Date: _____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

Topics	Things to remember	Practice	
Venn Diagram Sets	Notation: ∪ - Union ∩- Intersection ' - Complement "not"	P(AnB)	PlA) or PlA
Venn Diagram		3) How many people are in the club? SO 4) Find P(B) 26/50 = 13/25 5) Find P (B \cap C) 2/50 = 125 6) Find P (B \cap C) 41/50 = 125 7) P(B) 24 = 12/25	B 24 (2) 16 8
Venn Diagram	Working Backwards – start with the intersection.	8) A guidance counselor is planning schedules for 50 students. 26 want to take Spanish and 21 want to take Latin. 10 Say they want to take both. Display this information on the Venn Diagram below.	Spanish Latin
P(A or B)	Mutually Exclusive P(A) + P(B) (no overlap)	9.) Drawing one card from a standard deck of cards, what is P(drawing a 4 card or drawing a Jack) 4 4 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10.) If you roll single die, what is P(getting an odd number or getting a 4) $\frac{3}{6} + \frac{1}{6} = \frac{1}{6}$

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	Overlapping P(A) + P(B) – P(A & B)	11.) If you draw one card from a standard deck of cards what is P(10 card or spade) 16 1/51 + 13/52 - 151 = 52 = 13	12. If you roll a die, what is P(an even number or 6) $\frac{3}{6} + \frac{1}{6} - \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$
P(A and B)	independent P(A)•P(B)	13.) P(flipping a coin and getting three heads in a row)	14.) For a standard deck of cards, what is the probability of drawing a heart, replacing it, and then drawing a 2?
	Dependent P(A)•P(B given A)	15.) What is the probability of drawing a 7 from a deck of cards, and then drawing a king without replacing the	16.) What is the probability of drawing a 3 of hearts from a deck of cards and then drawing a Ace without replacing the 3 of hearts?
Tables	Total the columns and rows. They must equal in one box. Don't forget to subtract out the overlap. Watch for the given information.	Car Ownership by Grade Owns a Car Does Not Own a Car TOTAL Junior 16 38 54 Senior 45 8 53 TOTAL 6 107 17) Find the probability that a randomly selected student will be a junior, given that the student owns a car. 16/6 18) What is the probability that a junior does not own a car? Write your answer as a decimal. 19 Find the P(Owns a car or is a senior) Write your answer as a reduced fraction. 1 53 45 69 107 10 107 107 107 107 11 12 107 107 107 12 107 107 107 107 13 14 16 16 16 16 15 16 16 16 16 16 16 17 17 17 18 18 18 18 19 19 19 10 19 19 10 19 19 11 19 19 12 19 13 19 14 10 15 10 16 10 17 10 17 10 18 19 10 10 10 10 10 10 10	