

Name: _____ Date: _____ Period: _____

Probability "and" Problems

- 1) If two cards are selected at random from a deck of cards without replacement, what is the probability that they will both be face cards?
- 2) If two cards are selected at random from a deck of cards without replacement, what is the probability that the first one will be a face card and the second one will be a number less than 10?
- 3) If you roll one die two times, what is the probability that the first time you get an even number and the second time you get an odd number?
- 4) If you draw four cards from a deck without replacement, what is the probability that all four will be face cards?
- 5) If you draw four cards from a deck without replacement, what is the probability that the first three will be face cards and the fourth be a 10?
- 6) 25% of the students at Coronado are in Algebra II and 13% are in AP English. What is the probability that a student selected at random will be in both classes?
- 7) 2 out of 3 kids get their license when they turn 16. 1 out of 5 get a car when they turn 16. What is the probability that a kid will get both their license and a car?
- 8) 1 out of 48 people under the age of 25 votes. 2 out of 7 voters accidentally vote for the wrong candidate. What is the probability that a voter will be under the age of 25 and vote for the wrong candidate?
- 9) What is the probability the voter will be under 25 and vote for the correct candidate?
- 10) 1 out of 3 households has an Xbox. 2 out of 5 have a Nintendo. 1 out of 5 has a Playstation. What is the probability that a household selected at random will have all 3?