

Math 099 - ICA 10

Name _____

Addition and Multiplication Principle for Probability

Show all of your work to receive full credit. This quiz will be due in your D2L assignment folder by Saturday at 11:59pm. Late quizzes will not be accepted.

1. (4pts) Classify the following as mutually exclusive or not.
 - (a) A card that is drawn is a club or a face card.
 - (b) You pick up your friend's phone: it is an iPhone or an Android.
 - (c) A fair 6-sided die is rolled: it lands on an even number or a number less than 2
 - (d) You pull a bill out of your wallet: the bill is a \$1 or a \$20
2. (4pts) If one card is chosen at random from a standard 52-card deck. Find the probability the card is:
 - (a) a club or a spade
 - (b) a club and a spade
 - (c) an ace or a heart
 - (d) an ace and a heart
3. (2pts) Four cards are dealt one at a time without replacement from a standard 52-card deck. Find the probability that all 4 cards are aces.