

Attendance Quiz 6

Name: _____ Date: _____

1. Find the following probabilities for the indicated event when two die are rolled. (Hint: find sample space first).

Sample Space:

- (a) Both dice show the same number.
- (b) The sum of the two dice is at least 9.
- (c) The sum of the two dice is at most 9.
- (d) The first die is 2 and the sum is 11.
- (e) The number on the first die exceeds the number on the second die.

2. A card is randomly drawn from a standard deck of playing cards.

Let set A be the card is black

Let set B be the card is higher than a ten

Let set C be the card is a heart

Find the following probabilities:

- (a) $P(A)$
- (b) $P(B)$
- (c) $P(C)$
- (d) $P(A')$
- (e) $P(B')$
- (f) $P(C')$
- (g) $P(A \cap C)$
- (h) $P(A' \cap B')$
- (i) $P(B \cap C)$