

Attendance Quiz 7

Name: _____ Date: _____

1. If two cards are drawn without replacement from an ordinary deck, find the probabilities of the following results:

- (a) The second is black, given that the first is a spade.
- (b) The second is an ace, given that the first is not an ace.
- (c) An ace and a 4 are drawn.
- (d) Two hearts are drawn.

2. Two dice are rolled. Find the probability that the first number is 3, given the following:

- (a) The sum is 7
- (b) The sum is 8.

3. Let A and B be independent events with $P(A) = 0.25$ and $P(B) = 0.2$. Find $P(A \cup B)$ and $P(A \cap B)$.