

NAME: _____

QUIZ 3

Consider the experiment of tossing two fair dice. Consider the following events:

- A = sum is even
- B = a match (both numbers are the same)
- C = sum is larger than five
- D = sum is odd.

You can use this table to help yourself with the computations:

(1, 1)	(1, 2)	(1, 3)	(1, 4)	(1, 5)	(1, 6)
(2, 1)	(2, 2)	(2, 3)	(2, 4)	(2, 5)	(2, 6)
(3, 1)	(3, 2)	(3, 3)	(3, 4)	(3, 5)	(3, 6)
(4, 1)	(4, 2)	(4, 3)	(4, 4)	(4, 5)	(4, 6)
(5, 1)	(5, 2)	(5, 3)	(5, 4)	(5, 5)	(5, 6)
(6, 1)	(6, 2)	(6, 3)	(6, 4)	(6, 5)	(6, 6)

1. Find the following:

- $P(A) =$ _____
- $P(B) =$ _____
- $P(C) =$ _____
- $P(D) =$ _____
- $P(A|B) =$ _____
- $P(D|B) =$ _____
- $P(A|C) =$ _____
- $P(C|A) =$ _____
- $P(B|C) =$ _____

2. Which pair of events are independent?
