AUB: Union

ANB : Intersection

FST 6.1-6.3 Quiz Review

CxC =

In 1-2, consider the sample space when 2 fair 6-sided dice are tossed. \rightarrow 34 64-65

1. Find P(the sum is 3)

2. Find P(doubles or the sum is 4)

$$\frac{3}{36} = \frac{1}{18}$$

$$P(0) + P(4) - P(34)$$

$$\frac{C}{3L} + \frac{3}{3L} - \frac{1}{3L} = \frac{8}{3L} = \frac{9}{9}$$

3. Suppose the sample space for an experiment is all 52 playing cards in a standard deck. Let A be the event: Face Card. Describe the complement of A.

In 4-5, consider an experiment in which a coin is tossed 4 times

4. Write the experiment's sample space.



5. What is the probability of exactly 3 heads showing up?

6. A test has 8 true-false questions and 12 multiple-choice questions each with 4 choices. What is the probability of answering all questions correctly if you randomly guess on each?

- 7. A car showroom has enough room to display 5 cars in a row.
 - a. How many ways can the five cars be arranged?

b. How many ways can the cars be arranged if the most expensive car is in the middle?