

Name: _____ Period: _____ Date: _____

Probability of Compound Events Exit Quiz

Solve the following problems Permutation and Combination.

1. When rolling a pair of dice, what is the probability of rolling an odd number or a sum of 10.
2. There are 5 green, 3 blue and 7 red marbles inside a box. What is the probability of getting a blue or a green marble?
3. What is a probability of drawing a heart card and a queen in a 52 deck of card?

A student enrolled two math subjects: Statistics and algebra. His chance of passing the statistics subject is $\frac{3}{10}$. His chance of passing algebra is $\frac{6}{10}$.

4. What is the probability of passing Statistics and Algebra?
5. What is the probability of passing Statistics or Algebra?

Probability of Compound Events Exit Quiz

Answer:

Solve the following problems Permutation and Combination.

1. When rolling a pair of dice, what is the probability of rolling an odd number or a sum of 10.

$$P(E_1 \cup E_2) = (18/36) + (3/36) = 22/36$$

2. There are 5 green, 3 blue and 7 red marbles inside a box. What is the probability of getting a blue or a green marble?

$$P(E_1 \cup E_2) = (5/15) + (3/15) = 8/15$$

3. What is a probability of drawing a heart card and a queen in a 52 deck of card?

$$P(E_1 \cup E_2) = (13/52) + (4/52) - (1/52) = 16/52 \text{ or } 4/13$$

A student enrolled two math subjects: Statistics and algebra. His chance of passing the statistics subject is 3/10. His chance of passing algebra is 6/10.

4. What is the probability of passing Statistics and Algebra?

$$P(E_1 \cap E_2) = (3/10)(6/10) = 9/50$$

5. What is the probability of passing Statistics or Algebra?

$$P(E_1 \cup E_2) = (3/10) + (6/10) = 9/10$$