

Name: _____

Date _____

Topic: Single and Compound Events - Worksheet 1

Complete the following problems

1. Denny chose two cards randomly from a deck. What is the probability of getting a Queen and a Jack without replacement?
2. Mack plans to meet his 4 friends. How many different ways can he make his visit if he visits each friends once?
3. 3 coins are tossed and two six-sided dice are rolled. What is the probability of getting 3 heads and an even number on a dice?
4. The digits 5, 7, 1, and 9 are to be used in a roll number in a school. How many different roll numbers are possible if repetitions are not permitted?
5. Jeff can select one of 5 different hats, three of 7 different ties and three of 8 wallets from a shopping mall. In how many different ways can Jeff select ties, wallets and hats?
6. A letter is to be selected from all 26 letters. What is the probability of choosing consonants?
7. How many different 7-letter combinations can be formed from the word GEOMETRY if repetitions are not permitted?
8. A bag contains 13 cars: 2 are blue cars and 11 are red cars. What is the probability for picking a blue car?
9. What is the probability that a randomly selected number between 29 and 51 is divisible by 6?
10. A dice is rolled 6 times. What is the total number of possible outcomes?



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Topic: Single and Compound Events - Worksheet 2

Complete the following problems

1. Mark chose two cards randomly from a deck. What is the probability of getting an Ace and a Jack without replacement?
2. John plans to meet his 7 relatives. How many different ways can he make his visit if he visits each relative once?
3. 4 coins are tossed and three six-sided dice are rolled. What is the probability of getting 4 heads and an odd number on a die?
4. The digits 5, 9, 2, 3, 2, 7 are to be used in a roll number in a school. How many different roll numbers are possible if repetitions are not permitted?
5. Robby can select one of 4 different shirts, three of 6 different jeans and three of 8 jackets from a shopping mall. In how many different ways can Jeff select a shirt, jeans and jackets?
6. A letter is to be selected from all 26 letters. What is the probability of choosing vowels?
7. How many different 6-letter combinations can be formed from the word SAMPLES if repetitions are not permitted?
8. A Box contains 20 necklaces: 12 are Gold and 6 are Silver. What is the probability for picking a Silver necklace?
9. What is the probability that a randomly selected number between 15 and 25 is divisible by 8?
10. A dice is rolled 3 times. What is the total number of possible outcomes?



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Topic: Single and Compound Events - Worksheet 3

Complete the following problems

1. Jackson chose four cards randomly from a deck. What is the probability of getting an Ace, an Jack, a Queen and a King without replacement?
2. George plans to meet his 3 relatives. How many different ways can he make his visit if he visits each relative once?
3. 5 coins are tossed and three six-sided dice are rolled. What is the probability of getting 5 heads and a number divisible by two on a dice?
4. The digits 4, 3, 2, 1 are to be used in a roll number in a school. How many different roll numbers are possible if repetitions are not permitted?
5. Andrew can select one of 6 different pants, three of 4 different bows and three of 6 jackets from a shopping mall. In how many different ways can Andrew select pants, bows, and jackets?
6. There are 4 red balls 6 yellow balls in a bag. What is the possibility of taking out a red ball?
7. How many different 4-letter combinations can be formed from the word GLASS if repetitions are not permitted?
8. A Box contains 13 marbles: 3 are red and 10 are blue. What is the probability for picking a red marble?
9. What is the probability that a randomly selected number between 1 and 36 is divisible by 7?
10. A dice is rolled 4 times. What is the total number of possible outcomes?



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Topic: Single and Compound Events - Worksheet 4

Complete the following problems

1. Juliet chose three cards randomly from a deck. What is the probability of getting a Jack, a Queen, and a King without replacement?
2. Jacob plans to meet his 6 relatives. How many different ways can he make his visit if he visits each relative once?
3. 6 coins are tossed and three six-sided dice are rolled. What is the probability of getting 6 heads and a number divisible by three on a dice?
4. The digits 6, 5, 3, 1, 7 are to be used in a roll number in a school. How many different roll numbers are possible if repetitions are not permitted?
5. Andy can select one of 14 different shirts, three of 8 different jeans and three of 7 Jackets from a shopping mall. In how many different ways can Jeff select a shirt, jeans and a jacket?
6. There are 5 red balls 4 purple balls in a bag. What is the possibility of taking out a red ball?
7. How many different 9-letter combinations can be formed from the word COMPOUND if repetitions are not permitted?
8. A Box contains 18 marbles: 10 are red and 8 are blue. What is the probability for picking a blue marble?
9. What is the probability that a randomly selected number between 1 and 50 is divisible by 5?
10. A dice is rolled 5 times. What is the total number of possible outcomes?



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Topic: Single and Compound Events - Worksheet 5

Complete the following problems.

1. Janie chose one card randomly from a deck. What is the probability of getting a jack without replacement?
2. Josh plans to meet his 4 relatives. How many different ways can he make his visit if he visits each relative once?
3. 4 coins are tossed and three six-sided dice are rolled. What is the probability of getting 4 heads and an even number on a dice?
4. The digits 1, 5, 3 are to be used in a roll number in a school. How many different roll numbers are possible if repetitions are not permitted?
5. Andy can select one of 7 different shirts, three of 5 different jeans and three of 9 Jackets from a shopping mall. In how many different ways can Jeff select a shirt, jeans and jackets?
6. There are 3 red balls 5 purple balls in a bag. What is the possibility of taking out a red ball?
7. How many different 3-letter combinations can be formed from the word BALL if repetitions are not permitted?
8. A Box contains 20 marbles: 12 are red and 8 are blue. What is the probability for picking a blue marble?
9. What is the probability that a randomly selected number between 25 and 50 is divisible by 4?
10. A dice is rolled 8 times. What is the total number of possible outcomes?

