

Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Independent Events- Worksheet 1

1. What is the probability that a randomly selected number from 20 to 30 is divisible by 3 and then divisible by 12 after replacing first?
2. Cards are chosen at random from a deck. What is the probability of getting a Clubs?
3. A box contains 20 balls: 10 are yellow, 6 are red and 4 are grey. What is the probability of picking a yellow and then a red ball without replacing the first?
4. Four dice are rolled sequentially. What is the probability that the first die shows six and other die shows an odd number?
5. Two cards are chosen at random from a deck. What is the probability of getting a red King and then a black Jack without replacement?
6. One integer is selected at random from integers 1 through 15. Find the probability that the number is even.
7. A bottle contains 20 blue bags and 15 red bags. If two bags are picked at random one after the other with replacement, what is the probability that the first bag is blue and then red?
8. In a file, there are 4 science papers, 6 English papers, and 5 history papers. If you select two papers at random, what is the probability of getting science then a English paper from the file without replacing first paper?
9. A bag contains 12 black cards, 14 red cards and 12 green cards. What is the probability of drawing a black card first and then a red card with replacement?
10. In a group there are 4 boys and 8 girls. If three students are chosen, what is the probability of choosing three girls sequentially?



Name: \_\_\_\_\_

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Topic : Independent Events- Worksheet 2

1. What is the probability that a randomly selected number from 5 to 20 is divisible by 6 and then divisible by 15 after replacing first?
2. Cards are chosen at random from a deck. What is the probability of getting a Spade of Heart?
3. A bucket contains 35 bats: 15 are blue, 13 are grey, and 7 are black. What is the probability of picking a blue and then a black ball without replacing the first?
4. If three dice are rolled sequentially. What is the probability that the first die shows two and other die shows an even number?
5. Two cards are chosen at random from a deck. What is the probability of getting a black Queen and then a red Ace without replacement?
6. One integer is selected at random from integers 5 through 25. Find the probability that the number is odd.
7. A box contains 15 red pens and 18 brown pens. If two pens are picked at random one after the other with replacement, what is the probability that the first pen is red and then brown?
8. In a file, there are 8 physics papers, 3 math's papers, and 4 Civics papers. If you select two papers at random, what is the probability of getting physics then a math paper from the file without replacing first paper?
9. A jar contains 18 brown belts, 12 black belts and 15 white belts. What is the probability of drawing a brown belt first and then a black belt with replacement?
10. In a group there are 5 teachers and 15 students. If two students are chosen, what is the probability of choosing two students sequentially?



Name: \_\_\_\_\_

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Topic : Independent Events- Worksheet 3

1. What is the probability that a randomly selected number from 30 to 61 is divisible by 7 and then divisible by 20 after replacing first?
2. Cards are chosen at random from a deck. What is the probability of getting a clubs?
3. A box contains 42 erasers: 12 are red, 18 are green and 12 are black. What is the probability of picking a green and then a black eraser without replacing first?
4. If five dice are rolled sequentially. What is the probability that the first die shows one and other die shows an odd number?
5. Two cards are chosen at random from a deck. What is the probability of getting a red jack and then a black king without replacement?
6. One integer is selected at random from integers 8 through 38. Find the probability that the number is odd.
7. A bag contains 17 blue coins and 23 grey coins. If two coins are picked at random one after the other with replacement, what is the probability that the first coin is blue and then grey?
8. In a file, there are 5 math's papers, 8 biology papers, and 7 economics papers. If you select two papers at random, what is the probability of getting biology then a economics paper from the file without replacing first paper?
9. A bottle contains 15 red shirts, 10 green shirts and 20 white shirts. What is the probability of drawing a green shirt first and then a white shirt with replacement?
10. In a group there are 10 owners and 20 workers. If four workers are chosen, what is the probability of choosing four workers sequentially?



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Topic : Independent Events- Worksheet 4

1. What is the probability that a randomly selected number from 15 to 42 is divisible by 9 and then divisible by 25 after replacing first?
2. Cards are chosen at random from a deck. What is the probability of getting a diamond?
3. A Packet contains 23 shapes: 8 are cube, 7 are square and 8 are sphere. What is the probability of picking a cube and then a sphere shape without replacing first?
4. If five dice are rolled sequentially. What is the probability that first die & second die show two & four and other die shows an odd number?
5. Two cards are chosen at random from a deck. What is the probability of getting a red Ace and then a black jack of diamonds without replacement?
6. One integer is selected at random from integers 8 through 33. Find the probability that the number is odd.
7. A bucket contains 21 pink covers and 16 purple covers. If two covers are picked at random one after the other with replacement, what is the probability that the first cover is pink and then purple?
8. In a file, there are 11 chemistry papers, 9 Hindi papers, and 6 Civics papers. If you select two papers at random, what is the probability of getting Hindi then a Civics paper from the file without replacing first paper?
9. A box contains 22 red bows, 19 pink bows and 11 saffron bows. What is the probability of drawing a red bow first and then a saffron bow with replacement?
10. In a group there are 6 coaches and 19 players. If three players are chosen, what is the probability of choosing three players sequentially?



Name: \_\_\_\_\_

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Topic : Independent Events- Worksheet 5

1. What is the probability that a randomly selected number from 21 to 40 is divisible by 8 and then divisible by 15 after replacing first?
2. Cards are chosen at random from a deck. What is the probability of getting a Diamond?
3. A jar contains 15 pins: 3 are black, 8 are red and 4 are blue. What is the probability of picking a red and then a blue pin without replacing first?
4. If three dice are rolled sequentially. What is the probability that the first die shows six and other die shows an even number?
5. Two cards are chosen at random from a deck. What is the probability of getting a queen and then Ace without replacement?
6. One integer is selected at random from integers 7 through 27. Find the probability that the number is even.
7. A box contains 21 pink socks and 19 black socks. If two socks are picked at random one after the other with replacement, what is the probability that the first sock is pink and then black?
8. In a file, there are 7 science papers, 9 English papers, and 8 history papers. If you select two papers at random, what is the probability of getting science then a history paper from the file without replacing first paper?
9. A box contains 19 blue bells, 21 red bells and 11 grey bells. What is the probability of drawing a red bell first and then a grey bell with replacement?
10. In a group there are 15 managers and 25 clients. If three clients are chosen, what is the probability of choosing three clients sequentially?

