

Name _____

Date _____

Topic : Probability the complement of an event- Worksheet 1

Do the following:

1. You roll a die what is the probability that 2 will not appear on the dice?
2. Two 6-sided die is rolled. What is the probability of rolling a number that is not an odd number?
3. Ray and Shan are playing football. Probability of Ray winning the football game is $\cdot 36$
So what is the probability of Shan winning?
4. A girl is chosen at random from a shop 12 skirts and 16 tops. What is the probability that the girl chosen is not a skirt?
5. A bowl contains 20 green stones. If two stones are chosen at random from the bowl, what is the probability that it is not green?
6. A number from 1 to 8 is chosen at random. What is the probability that the number chosen is not even?
7. If a single 6-sided die is rolled, what is the probability of rolling a number that is not 1 or 5?
8. A single card is chosen at random from a standard deck of 52 playing cards. What is the probability of choosing a card that is not a diamond?
9. You roll a die numbered from 1 to 6. What is the probability that the number is not 6.
10. There are 6 balls in a bucket and 3 of them are white. what is the probability that it will not be white?



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Topic : Probability the complement of an event- Worksheet 1 **ANSWERS**

1.

$5/6$

2.

$6/12$

3.

$64/1$

4.

$16/28$

5.

$18/20$

6.

$4/8$

7.

$4/6$

8.

$39/52$

9.

$5/6$

10.

$3/6$



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Topic : Probability the complement of an event- Worksheet 2

Do the following:

1. You roll three die what is the probability that 5 will not appear on the dice?
2. A 6-sided die is rolled. What is the probability of rolling a number that is not an even number?
3. Ricky and Nicky are playing basketball. Probability of Ricky winning the basketball game is .44. So what is the probability of Shan winning?
4. A boy is chosen at random from a toy shop 15 remote car and 20 teddy bears. What is the probability that the boy chosen is not a teddy bears?
5. A bucket contains 10 blue balls. If four balls are chosen at random from the bucket, what is the probability that it is not blue?
6. A number from 5 to 15 is chosen at random. What is the probability that the number chosen is not odd?
7. If two 6-sided die is rolled, what is the probability of rolling a number that is not 3 or 6?
8. A single card is chosen at random from a standard deck of 52 playing cards. What is the probability of choosing a card that is not an Ace card?
9. You roll a die numbered from 1 to 4. What is the probability that the number is not 2?
10. There are 19 marbles in a bag and 12 of them are purple. what is the probability that it will not be purple?



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Topic : Probability the complement of an event- Worksheet 2 **ANSWERS**

1. **$15/18$**

2. **$3/6$**

3. **$56/1$**

4. **$15/35$**

5. **$6/10$**

6. **$5/10$**

7. **$8/12$**

8. **$48/52$**

9. **$3/4$**

10. **$7/19$**



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Topic : Probability the complement of an event- Worksheet 3

Do the following:

1. You roll four dies what is the probability that 3 will not appear on the dice?
2. Three 6-sided dies are rolled. What is the probability of rolling a number that is not an odd number?
3. Ronny and Monee are playing cricket. Probability of Ronny winning the cricket game is .55. So what is the probability of Monee winning?
4. A woman is chosen at random from a showroom 20 suits and 14 sarees. What is the probability that the woman chosen is not a suit?
5. A box contains 22 red pens. If ten pens are chosen at random from the box, what is the probability that it is not red?
6. A number from 10 to 25 is chosen at random. What is the probability that the number chosen is not even?
7. If three 6-sided dies are rolled, what is the probability of rolling a number that is not 2 or 4?
8. A single card is chosen at random from a standard deck of 52 playing cards. What is the probability of choosing a card that is not a black card?
9. You roll two dies numbered from 1 to 6. What is the probability that the number is not 6?
10. There are 25 stones in a jar and 15 of them are brown. If 10 stones are chosen, what is the probability that it will not be brown?



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Topic : Probability the complement of an event- Worksheet 3 **ANSWERS**

1. **21/24**

2. **9/18**

3. **45/1**

4. **14/34**

5. **12/22**

6. **7/15**

7. **12/18**

8. **26/52**

9. **10/12**

10. **10/25**



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Topic: Probability the complement of an event- Worksheet 4

Do the following:

1. You roll two dies what is the probability that 1 will not appear on the dice?
2. Four 6-sided die is rolled. What is the probability of rolling a number that is not an even number?
3. Tinny and Minnie are playing tennis. Probability of Tinny winning the tennis game is .75. So what is the probability of Minnie winning?
4. A man is chosen at random from a shop 12 shirts and 18 ties. What is the probability that the man chosen is not a shirt?
5. A jar contains 40 pins. In which 13 are grey pins, 17 are red & 10 are blue. Pins are chosen at random from the jar, what is the probability that it is not blue?
6. A number from 1 to 18 is chosen at random. What is the probability that the number chosen is not odd?
7. If one 6-sided die is rolled, what is the probability of rolling a number that is not 3 or 6?
8. A single card is chosen at random from a standard deck of 52 playing cards. What is the probability of choosing a card that is not a heart?
9. You roll four dies numbered from 1 to 6. What is the probability that the number is not 5?
10. There are 16 chocolates in a plate and 5 of them are dairy milk. If 4 chocolates are chosen, what is the probability that it will not be dairy milk?



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Topic : Probability the complement of an event- Worksheet 4 **ANSWERS**

1.

10/12

2.

12/24

3.

25/1

4.

18/30

5.

30/40

6.

9/18

7.

4/6

8.

39/52

9.

20/24

10.

1/5



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Topic : Probability the complement of an event- Worksheet 5

Do the following:

1. You roll one die what is the probability that 2 will not appear on the dice?
2. Two 6-sided die is rolled. What is the probability of rolling a number that is not an odd number?
3. Andrew and Freddy are playing volleyball. Probability of Andrew winning the volleyball game is .48. So what is the probability of Freddy winning?
4. A girl is chosen at random from bakery 5 pastries and 6 patties. What is the probability that the man chosen is not a pastry?
5. A bag contains 15 bottles. In which 5 are pink bottles, 6 are black & 4 are red. 5 bottles are chosen at random from the bag, what is the probability that it is not pink?
6. A number from 5 to 20 is chosen at random. What is the probability that the number chosen is not even?
7. If two 6-sided die is rolled, what is the probability of rolling a number that is not 2 or 4?
8. A single card is chosen at random from a standard deck of 52 playing cards. What is the probability of choosing a card that is not a club?
9. You roll two dies numbered from 1 to 6. What is the probability that the number is not 6?
10. There are 10 flowers in a garden and 5 of them are roses. If 3 flowers are chosen, what is the probability that it will not be rose?



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Topic : Probability the complement of an event- Worksheet 5 **ANSWERS**

1. **$5/6$**

2. **$6/12$**

3. **$52/1$**

4. **$6/11$**

5. **$10/15$**

6. **$7/15$**

7. **$8/12$**

8. **$39/52$**

9. **$10/12$**

10. **$2/5$**

