| | Basic Probability | Name: |

Answers

Use each diagram to solve the problems.

1) If you spun the spinner 1 time, what is the probability it would land on a black piece?

2) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

3) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

4) If you spun the spinner 1 time, what is the probability it would land on a white piece?
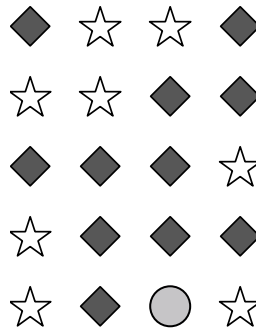
5) How many pieces are there total in the spinner?
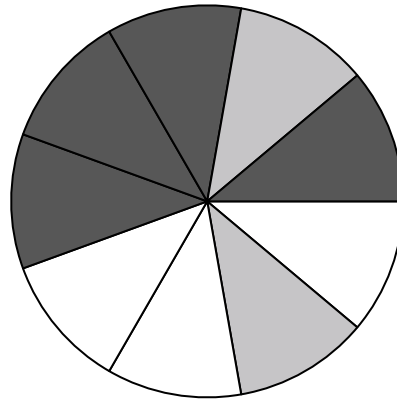
6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

7) If you were to roll the dice one time what is the probability it will land on a 4?

8) If you were to roll the dice one time, what is the probability of it landing on an odd number?

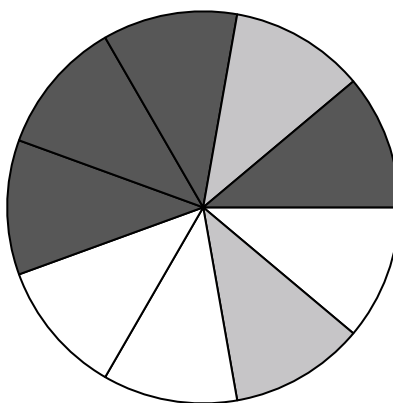**9)** Which shape has a 0.40% chance (8 out of 20) of being selected?

10) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

11) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

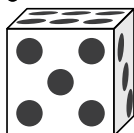**12)** How many shapes are there total in the array?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

| 1-10 | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
| 11-12 | 8 | 0 | | | | | | | | |

Name:

Use each diagram to solve the problems.

Answers

1) If you spun the spinner 1 time, what is the probability it would land on a black piece?

1. **4 out of 9**

2) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

2. **7 out of 9**

3. **2 out of 9**

3) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

4. **3 out of 9**

5. **9**

4) If you spun the spinner 1 time, what is the probability it would land on a white piece?

6. **5 out of 6**

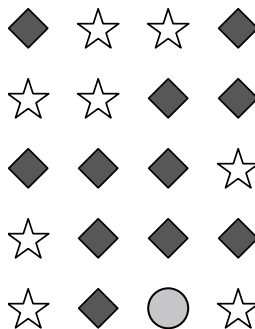5) How many pieces are there total in the spinner?

7. **1 out of 6**

8. **3 out of 6**

6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

9. **star**

7) If you were to roll the dice one time what is the probability it will land on a 4?

10. **circle**

11. **11 out of 20**

8) If you were to roll the dice one time, what is the probability of it landing on an odd number?
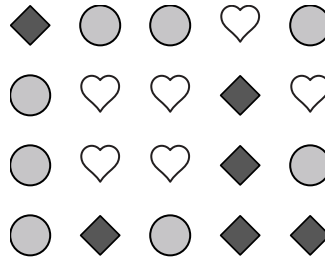
12. **20**

9) Which shape has a 0.40% chance (8 out of 20) of being selected?

10) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

11) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

12) How many shapes are there total in the array?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) Which shape has a 0.40% chance (8 out of 20) of being selected?

2) How many shapes are there total in the array?

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

5) If you were to roll the dice one time what is the probability it will land on a 3?

6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

7) If you were to roll the dice one time, what is the probability of it landing on an odd number?
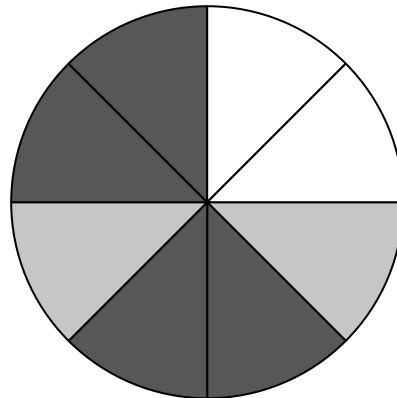
8) If you spun the spinner 1 time, what is the probability it would land on a white piece?

9) If you spun the spinner 1 time, what is the probability it would land on a black piece?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) How many pieces are there total in the spinner?

12) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a gray piece?
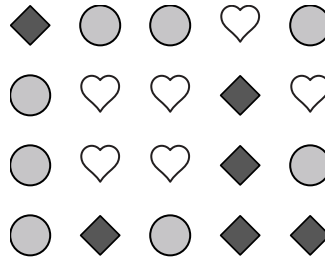
1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) Which shape has a 0.40% chance (8 out of 20) of being selected?

2) How many shapes are there total in the array?

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

5) If you were to roll the dice one time what is the probability it will land on a 3?

6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

7) If you were to roll the dice one time, what is the probability of it landing on an odd number?
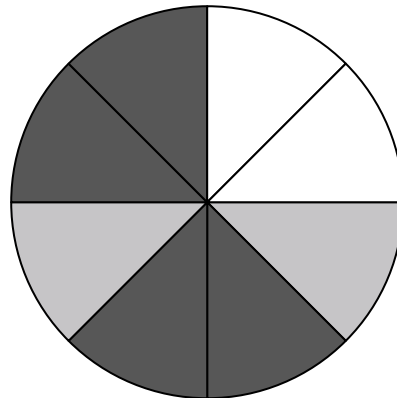
8) If you spun the spinner 1 time, what is the probability it would land on a white piece?

9) If you spun the spinner 1 time, what is the probability it would land on a black piece?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) How many pieces are there total in the spinner?

12) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a gray piece?

Answers

1.   **circle**

2.   **20**

3.   **diamond**

4.   **6 out of 20**

5.   **1 out of 6**

6.   **5 out of 6**

7.   **3 out of 6**

8.   **2 out of 8**

9.   **4 out of 8**

10.   **2 out of 8**

11.   **8**

12.   **4 out of 8**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

**1)** If you were to select 1 shape at random from the array, what is the probability it will be a star?

1. _____

2) Which shape has a 0.44% chance (7 out of 16) of being selected?

2. _____

3. _____

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4. _____

4) How many shapes are there total in the array?

5. _____

6. _____

7. _____

5) If you spun the spinner 1 time, what is the probability it would land on a white piece?
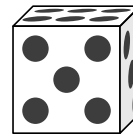
8. _____

6) How many pieces are there total in the spinner?

9. _____

7) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a black piece?

10. _____

11. _____

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

12. _____

9) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

10) If you were to roll the dice one time what is the probability it will land on a 2?

11) If you were to roll the dice one time what is the probability it will NOT land on a 1?

12) If you were to roll the dice one time, what is the probability of it landing on an odd number?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Basic Probability   Name: **Answer Key**

Use each diagram to solve the problems.

Answers

1) If you were to select 1 shape at random from the array, what is the probability it will be a star?
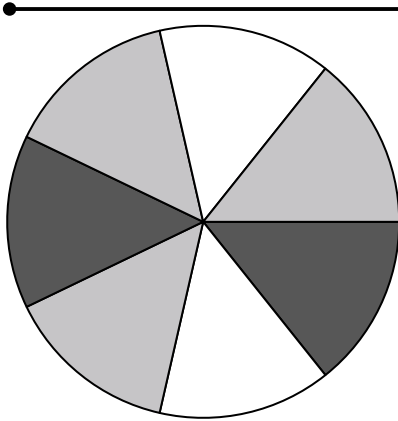
2) Which shape has a 0.44% chance (7 out of 16) of being selected?

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4) How many shapes are there total in the array?
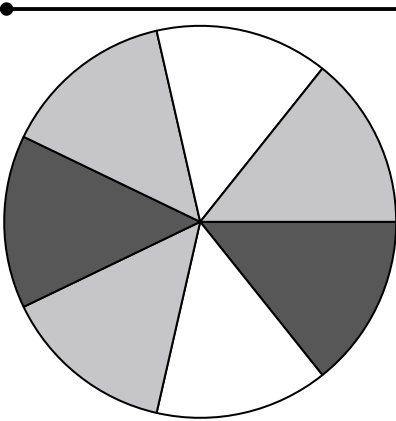
5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

6) How many pieces are there total in the spinner?

7) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a black piece?

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

9) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

10) If you were to roll the dice one time what is the probability it will land on a 2?
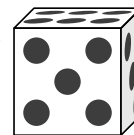
11) If you were to roll the dice one time what is the probability it will NOT land on a 1?

12) If you were to roll the dice one time, what is the probability of it landing on an odd number?

1. **5 out of 16**
2. **heart**
3. **circle**
4. **16**
5. **2 out of 7**
6. **7**
7. **4 out of 7**
8. **2 out of 7**
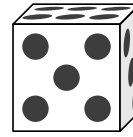9. **3 out of 7**
10. **1 out of 6**
11. **5 out of 6**
12. **3 out of 6**

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will land on a 5?

1. _____

2) If you were to roll the dice one time, what is the probability of it landing on an odd number?

2. _____

3. _____

3) If you were to roll the dice one time what is the probability it will NOT land on a 1?
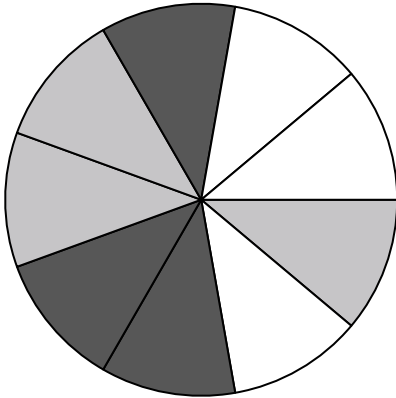
4. _____

5. _____

4) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

6. _____

7. _____

5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

8. _____

6) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

9. _____

10. _____

7) If you spun the spinner 1 time, what is the probability it would land on a black piece?

11. _____

8) How many pieces are there total in the spinner?

12. _____

9) Which shape has a 0.40% chance (8 out of 20) of being selected?

10) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?
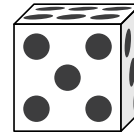
11) How many shapes are there total in the array?

12) If you were to select 1 shape at random from the array, what is the probability it will be a circle?
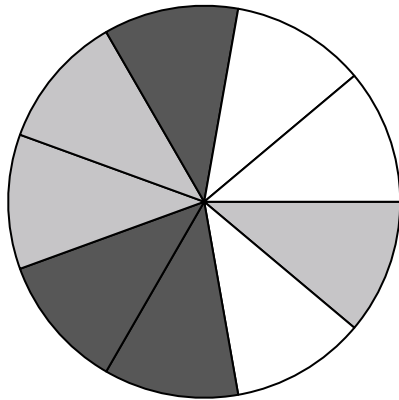
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will land on a 5?

1. ___**1 out of 6**___

2) If you were to roll the dice one time, what is the probability of it landing on an odd number?

2. ___**3 out of 6**___

3) If you were to roll the dice one time what is the probability it will NOT land on a 1?

3. ___**5 out of 6**___

4. ___**6 out of 9**___

4) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

5. ___**3 out of 9**___

6. ___**3 out of 9**___

5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

7. ___**3 out of 9**___

8. ___**9**___

6) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

9. ___**star**___

10. ___**circle**___

7) If you spun the spinner 1 time, what is the probability it would land on a black piece?

11. ___**20**___

8) How many pieces are there total in the spinner?

12. ___**5 out of 20**___

9) Which shape has a 0.40% chance (8 out of 20) of being selected?

10) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

11) How many shapes are there total in the array?

12) If you were to select 1 shape at random from the array, what is the probability it will be a circle?

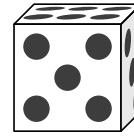| 1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will NOT land on a 1?

2) If you were to roll the dice one time, what is the probability of it landing on an even number?

3) If you were to roll the dice one time what is the probability it will land on a 4?
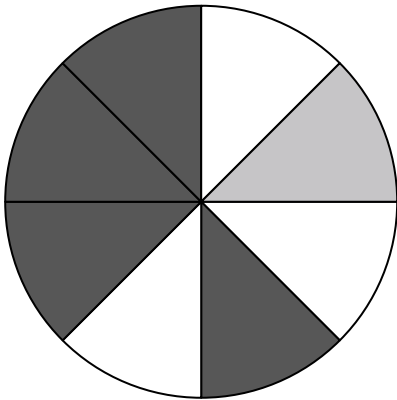
1. _____

2. _____

3. _____

4. _____

5. _____

4) If you spun the spinner 1 time, what is the probability it would land on a gray piece?
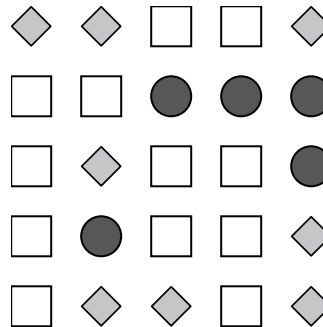
6. _____

5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

7. _____

6) How many pieces are there total in the spinner?

8. _____

9. _____

10. _____

7) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

11. _____

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

12. _____

9) Which shape has a 0.32% chance (8 out of 25) of being selected?

10) If you were to select 1 shape at random from the array, what is the probability it will be a circle?
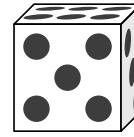
11) How many shapes are there total in the array?

12) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?
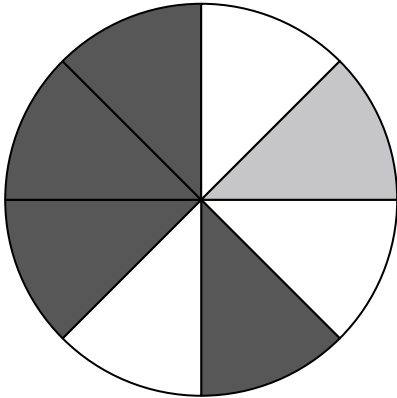
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

| | Basic Probability | Name: | |

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will NOT land on a 1?

2) If you were to roll the dice one time, what is the probability of it landing on an even number?

3) If you were to roll the dice one time what is the probability it will land on a 4?

4) If you spun the spinner 1 time, what is the probability it would land on a gray piece?
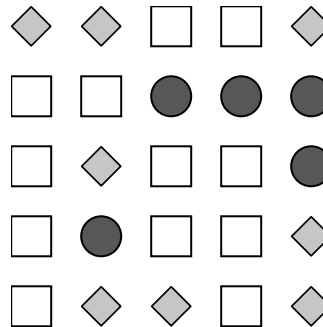
5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

6) How many pieces are there total in the spinner?

7) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

9) Which shape has a 0.32% chance (8 out of 25) of being selected?

10) If you were to select 1 shape at random from the array, what is the probability it will be a circle?

11) How many shapes are there total in the array?

12) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

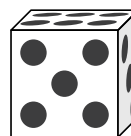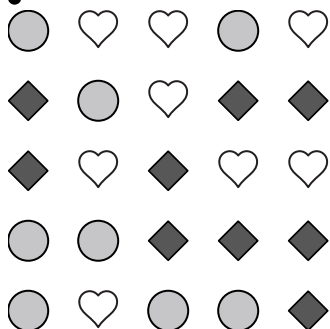| 1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will NOT land on a 1?

2) If you were to roll the dice one time what is the probability it will land on a 3?

3) If you were to roll the dice one time, what is the probability of it landing on an odd number?
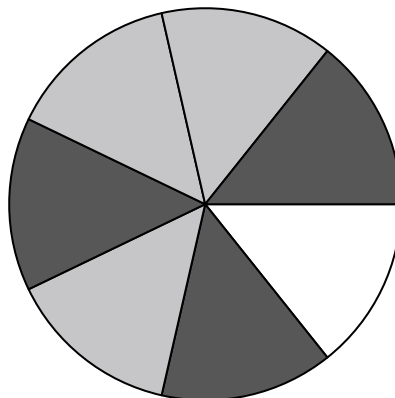
4) If you were to select 1 shape at random from the array, what is the probability it will be a heart?

5) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

6) How many shapes are there total in the array?

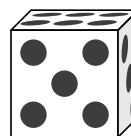**7)** Which shape has a 0.36% chance (9 out of 25) of being selected?

8) How many pieces are there total in the spinner?

9) If you spun the spinner 1 time, what is the probability it would land on a white piece?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

12) If you spun the spinner 1 time, what is the probability it would land on a black piece?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

Answers

1) If you were to roll the dice one time what is the probability it will NOT land on a 1?

2) If you were to roll the dice one time what is the probability it will land on a 3?

3) If you were to roll the dice one time, what is the probability of it landing on an odd number?

4) If you were to select 1 shape at random from the array, what is the probability it will be a heart?

5) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

6) How many shapes are there total in the array?

7) Which shape has a 0.36% chance (9 out of 25) of being selected?

8) How many pieces are there total in the spinner?

9) If you spun the spinner 1 time, what is the probability it would land on a white piece?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

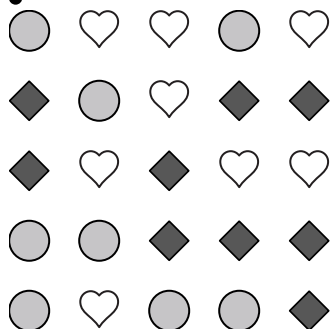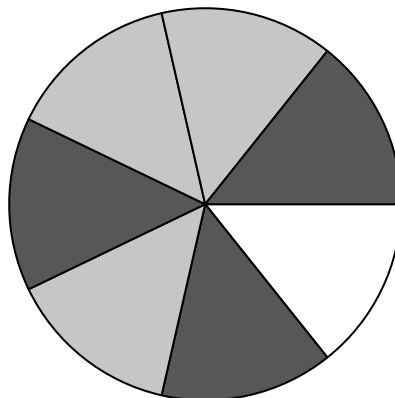12) If you spun the spinner 1 time, what is the probability it would land on a black piece?

#	Answer
1.	**5 out of 6**
2.	**1 out of 6**
3.	**3 out of 6**
4.	**8 out of 25**
5.	**circle**
6.	**25**
7.	**diamond**
8.	**7**
9.	**1 out of 7**
10.	**3 out of 7**
11.	**4 out of 7**
12.	**3 out of 7**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Answers
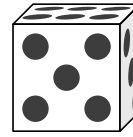
Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will land on a 6?

2) If you were to roll the dice one time what is the probability it will NOT land on a 1?

3) If you were to roll the dice one time, what is the probability of it landing on an odd number?
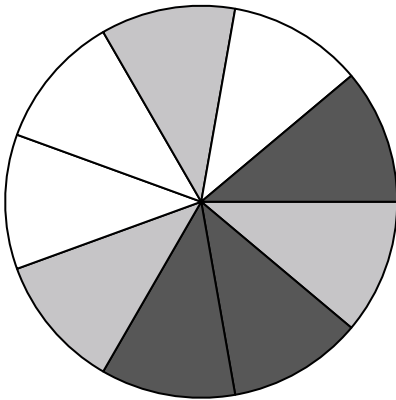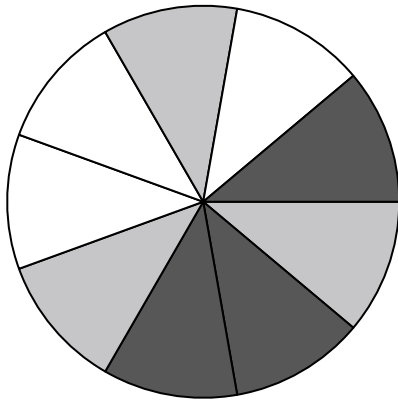
4) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

5) If you spun the spinner 1 time, what is the probability it would land on a black piece?

6) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

7) How many pieces are there total in the spinner?

8) If you spun the spinner 1 time, what is the probability it would land on a white piece?

9) How many shapes are there total in the array?

10) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?
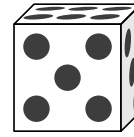
11) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

12) Which shape has a 0.45% chance (9 out of 20) of being selected?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use each diagram to solve the problems.

1) If you were to roll the dice one time what is the probability it will land on a 6?

    1.   **1 out of 6**

2) If you were to roll the dice one time what is the probability it will NOT land on a 1?

    2.   **5 out of 6**

3) If you were to roll the dice one time, what is the probability of it landing on an odd number?

    3.   **3 out of 6**

    4.   **6 out of 9**

4) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a white piece?

    5.   **3 out of 9**

    6.   **3 out of 9**

5) If you spun the spinner 1 time, what is the probability it would land on a black piece?

    7.   **9**

    8.   **3 out of 9**

6) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

    9.   **20**

7) How many pieces are there total in the spinner?

    10.   **4 out of 20**

    11.   **diamond**

8) If you spun the spinner 1 time, what is the probability it would land on a white piece?

    12.   **star**

9) How many shapes are there total in the array?

10) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

11) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

12) Which shape has a 0.45% chance (9 out of 20) of being selected?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

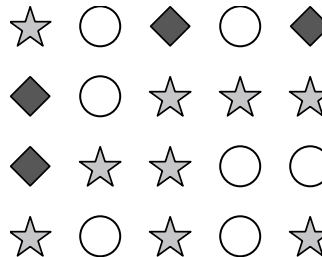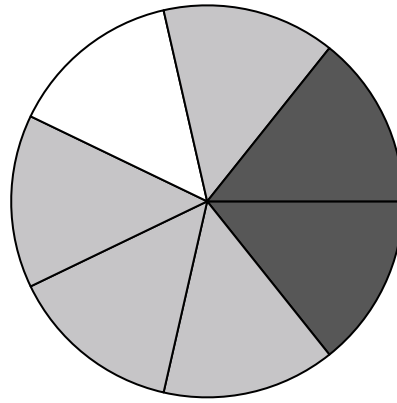**Use each diagram to solve the problems.**

1) If you spun the spinner 1 time, what is the probability it would land on a black piece?

1. _____

2) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

2. _____

3. _____

3) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a gray piece?

4. _____

4) How many pieces are there total in the spinner?

5. _____

6. _____

5) If you spun the spinner 1 time, what is the probability it would land on a white piece?

7. _____

8. _____

6) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

9. _____

10. _____

7) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

11. _____

8) How many shapes are there total in the array?

12. _____

9) Which shape has a 0.30% chance (6 out of 20) of being selected?

10) If you were to roll the dice one time, what is the probability of it landing on an even number?

11) If you were to roll the dice one time what is the probability it will NOT land on a 1?

12) If you were to roll the dice one time what is the probability it will land on a 5?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Answer Key

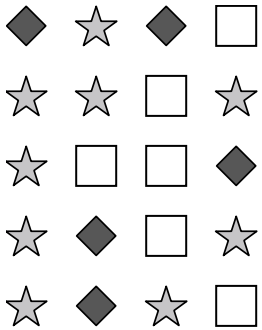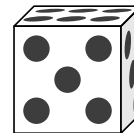**Use each diagram to solve the problems.**

1) If you spun the spinner 1 time, what is the probability it would land on a black piece?

2) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

3) If you spun the spinner 1 time, what is the probability of landing on either a white piece or a gray piece?

4) How many pieces are there total in the spinner?

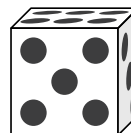5) If you spun the spinner 1 time, what is the probability it would land on a white piece?
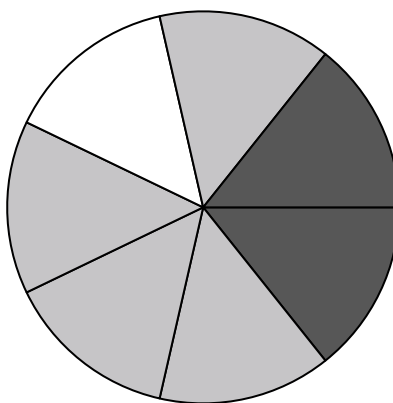
1. **2 out of 7**

2. **4 out of 7**

3. **5 out of 7**

4. **7**

5. **1 out of 7**

6. **5 out of 20**

7. **diamond**

8. **20**

9. **square**

10. **3 out of 6**

11. **5 out of 6**

12. **1 out of 6**
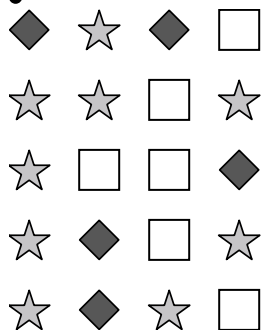
6) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

7) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

8) How many shapes are there total in the array?

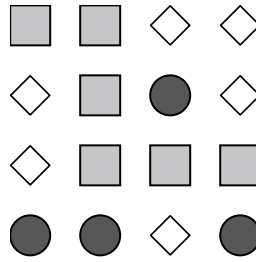9) Which shape has a 0.30% chance (6 out of 20) of being selected?

10) If you were to roll the dice one time, what is the probability of it landing on an even number?

11) If you were to roll the dice one time what is the probability it will NOT land on a 1?

12) If you were to roll the dice one time what is the probability it will land on a 5?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Basic Probability

Name: _____

Use each diagram to solve the problems.

1) Which shape has a 0.38% chance (6 out of 16) of being selected?

2) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4) How many shapes are there total in the array?

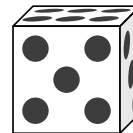5) How many pieces are there total in the spinner?

6) If you spun the spinner 1 time, what is the probability it would land on a white piece?

7) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

9) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a gray piece?

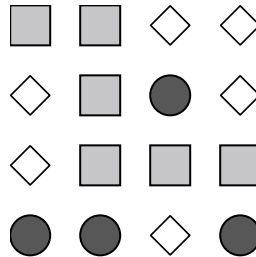10) If you were to roll the dice one time what is the probability it will NOT land on a 1?

11) If you were to roll the dice one time, what is the probability of it landing on an odd number?

12) If you were to roll the dice one time what is the probability it will land on a 4?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

| | Basic Probability | Name: | Answer Key |

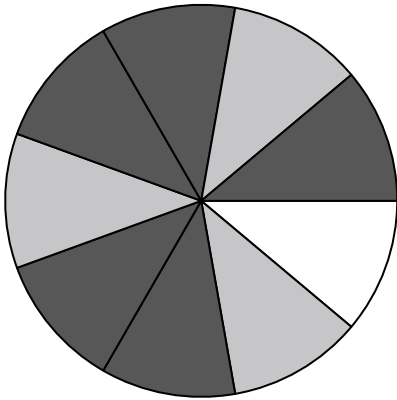**Use each diagram to solve the problems.**

1) Which shape has a 0.38% chance (6 out of 16) of being selected?

2) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

3) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4) How many shapes are there total in the array?

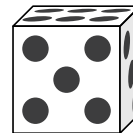**5)** How many pieces are there total in the spinner?

6) If you spun the spinner 1 time, what is the probability it would land on a white piece?

7) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

9) If you spun the spinner 1 time, what is the probability of landing on either a black piece or a gray piece?

10) If you were to roll the dice one time what is the probability it will NOT land on a 1?

11) If you were to roll the dice one time, what is the probability of it landing on an odd number?

12) If you were to roll the dice one time what is the probability it will land on a 4?

1. **square**

2. **6 out of 16**

3. **circle**

4. **16**

5. **9**

6. **1 out of 9**

7. **3 out of 9**

8. **5 out of 9**

9. **8 out of 9**

10. **5 out of 6**

11. **3 out of 6**

12. **1 out of 6**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

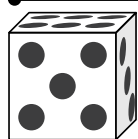**Use each diagram to solve the problems.**

1) How many shapes are there total in the array?

1. _____

2) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

2. _____

3. _____

3) Which shape has a 0.45% chance (9 out of 20) of being selected?

4. _____

5. _____

4) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

6. _____

5) If you were to roll the dice one time what is the probability it will land on a 5?

7. _____

8. _____

6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

9. _____

7) If you were to roll the dice one time, what is the probability of it landing on an odd number?
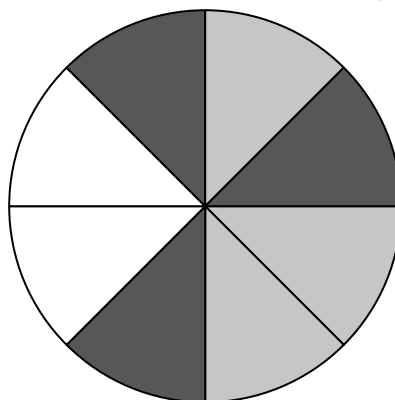
10. _____

11. _____

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

12. _____

9) How many pieces are there total in the spinner?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) If you spun the spinner 1 time, what is the probability it would land on a white piece?

12) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name:

Use each diagram to solve the problems.

Answers

1) How many shapes are there total in the array?

◇ ⬤ ★ ★
★ ★ ⬤ ★
⬤ ⬤ ◇ ★
⬤ ⬤ ⬤ ★
◇ ⬤ ◇ ⬤

1. ___**20**___

2) If you were to select 1 shape at random from the array, what is the probability it will be a diamond?

2. ___**4 out of 20**___

3) Which shape has a 0.45% chance (9 out of 20) of being selected?

3. ___**circle**___

4) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?

4. ___**diamond**___

5. ___**1 out of 6**___

5) If you were to roll the dice one time what is the probability it will land on a 5?

6. ___**5 out of 6**___

7. ___**3 out of 6**___

6) If you were to roll the dice one time what is the probability it will NOT land on a 1?

8. ___**3 out of 8**___

9. ___**8**___

7) If you were to roll the dice one time, what is the probability of it landing on an odd number?

10. ___**3 out of 8**___

11. ___**2 out of 8**___

8) If you spun the spinner 1 time, what is the probability it would land on a black piece?

12. ___**5 out of 8**___

9) How many pieces are there total in the spinner?

10) If you spun the spinner 1 time, what is the probability it would land on a gray piece?

11) If you spun the spinner 1 time, what is the probability it would land on a white piece?

12) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								