

Q4 (Probability) Day 161 Name: _____

1. Sam is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Sam rolls a 1 or 2

Outcome B: Sam rolls an even number

Outcome C: Sam rolls a 2

Outcome D: Sam rolls a number which is not 1 or 6

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below. The least likely outcome has been done for you.

_____ C _____
(least likely) (most likely)

2. John is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: John rolls a 4, 2 or 1

Outcome B: John rolls an odd number apart from 5

Outcome C: John rolls a 2 or more

Outcome D: John rolls a number which more than 5

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below. The least likely outcome has been done for you.

_____ D _____
(least likely) (most likely)

3. Ruth is playing with some six-sided dice. She rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Ruth rolls a 4 or more

Outcome B: Ruth rolls an even number or a 1

Outcome C: Ruth rolls a 2, 5, 1, 3 or 6

Outcome D: Ruth rolls a 4

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below. The least likely outcome has been done for you.

_____D_____ (least likely) _____ (most likely)

4. Grace is playing with some six-sided dice. She rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Grace rolls a number

Outcome B: Grace rolls an odd number

Outcome C: Grace rolls a 1 or 6

Outcome D: Grace rolls a number which is not 4

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

_____ (least likely) _____ (most likely)

5. Clare is playing with some six-sided dice. She rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Clare rolls an even number but not 2

Outcome B: Clare rolls an odd number

Outcome C: Clare rolls a 3 or more

Outcome D: Clare rolls a number which is less than 2

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

6. Derek is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Derek rolls a 6 or above

Outcome B: Derek rolls an odd number less than 4

Outcome C: Derek rolls a number above 2

Outcome D: Derek rolls an even number

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

7. Max is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Max rolls a 4 or less

Outcome B: Max rolls an odd number above 3

Outcome C: Max rolls a 4 or 5

Outcome D: Max rolls a number which is not 2

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

8. Patrick is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Patrick rolls a prime number

Outcome B: Patrick rolls a factor of 12

Outcome C: Patrick rolls a square number

Outcome D: Patrick rolls a 6

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

9. Michael is playing with some six-sided dice. He rolls **one** of the dice. Look at the four possible outcomes below.

Outcome A: Michael rolls a triangular number

Outcome B: Michael rolls a multiple of 3

Outcome C: Michael **doesn't** roll a factor of 12

Outcome D: Michael rolls an even number or a 5

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below. The least likely outcome has been done for you.

_____C_____ (least likely) _____ (most likely)

10. Barney is playing with some six-sided dice. He rolls **two** of the dice and adds the total of the two dice. (**For example: he rolls a 3 on one dice and a 4 on the other, the total = 7**)

Look at the four possible outcomes below.

Outcome A: Barney rolls an even number

Outcome B: Barney rolls an odd number

Outcome C: Barney rolls a multiple of 4

Outcome D: Barney rolls a multiple of 3

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below. The least likely outcome has been done for you.

_____C_____ (least likely) _____ (most likely)

11. Gemma is playing with some six-sided dice. She rolls **two** of the dice and adds the total of the two dice. **(For example: he rolls a 3 on one dice and a 4 on the other, the total = 7)**

Look at the four possible outcomes below.

Outcome A: Gemma rolls a number above 4

Outcome B: Gemma rolls an even number

Outcome C: Gemma rolls a triangular number

Outcome D: Gemma rolls a prime number less than 10

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

12. Toby is playing with some six-sided dice. He rolls **two** of the dice and adds the total of the two dice. **(For example: he rolls a 3 on one dice and a 4 on the other, the total = 7)**

Look at the four possible outcomes below.

Outcome A: Toby rolls a square number

Outcome B: Toby rolls a number which is not 1

Outcome C: Toby rolls an even number

Outcome D: Toby rolls a factor of 12

Put the four outcomes in order from the **least likely to most likely**. Write a letter in each of the spaces below.

(least likely)

(most likely)

Answers

- | | | | |
|-------------|----------|----------|-----------|
| 1. C (1/6) | A (2/6) | B (3/6) | D (4/6) |
| 2. D (1/6) | B (2/6) | A (3/6) | C (5/6) |
| 3. D (1/6) | A (3/6) | B (4/6) | C (5/6) |
| 4. C (2/6) | B (3/6) | D (5/6) | A (6/6) |
| 5. D (1/6) | A (2/6) | B (3/6) | C (4/6) |
| 6. A (1/6) | B (2/6) | D (3/6) | C (4/6) |
| 7. B (1/6) | C (2/6) | A (4/6) | D (5/6) |
| 8. D (1/6) | C (2/6) | A (3/6) | B (5/6) |
| 9. C (1/6) | B (2/6) | A (3/6) | D (4/6) |
| 10.C (3/11) | D (4/11) | B (5/11) | A (6/11) |
| 11.C (3/11) | D (4/11) | B (6/11) | A (8/11) |
| 12.A (2/11) | D (5/11) | C (6/11) | B (11/11) |