

32 (Probability) Paper 1 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)



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)



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)



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)



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)



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)



Answers

A (2/6)	B (3/6)	D (4/6)
B (2/6)	A (3/6)	C (5/6)
A (3/6)	B (4/6)	C (5/6)
B (3/6)	D (5/6)	A (6/6)
A (2/6)	B (3/6)	C (4/6)
B (2/6)	D (3/6)	C (4/6)
C (2/6)	A (4/6)	D (5/6)
C (2/6)	A (3/6)	B (5/6)
B (2/6)	A (3/6)	D (4/6)
D (4/11)	B (5/11)	A (6/11)
D (4/11)	B (6/11)	A (8/11)
D (5/11)	C (6/11)	B (11/11)
	A (2/6) B (2/6) A (3/6) B (3/6) A (2/6) B (2/6) C (2/6) C (2/6) B (2/6) D (4/11) D (4/11) D (5/11)	A (2/6) B (3/6) B (2/6) A (3/6) A (3/6) B (4/6) B (3/6) D (5/6) A (2/6) B (3/6) B (2/6) D (3/6) C (2/6) A (4/6) C (2/6) A (3/6) B (2/6) A (3/6) D (4/11) B (5/11) D (4/11) B (6/11) D (5/11) C (6/11)