

Q5 (Probability) Day 11 **Name:** _____

1. Ruth rolls a **six-sided dice**. Listed below are five possible outcomes:

Outcome **A**: She rolls a multiple of 3

Outcome **B**: She rolls an odd number

Outcome **C**: She rolls a multiple of 5

Outcome **D**: She rolls a 6 or above

Outcome **E**: She rolls a number below 4

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 50% chance.

2. Clare rolls a **six-sided dice**. Listed below are five possible outcomes:

Outcome **A**: She rolls a multiple of 4

Outcome **B**: She rolls an even number

Outcome **C**: She rolls a triangular number

Outcome **D**: She rolls a square number

Outcome **E**: She rolls a factor of 6

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 50% chance.

3. John rolls a **six-sided dice**. Listed below are five possible outcomes:

Outcome **A**: He rolls a multiple of 2

Outcome **B**: He rolls an odd number above 4

Outcome **C**: He rolls a multiple of 1

Outcome **D**: He rolls a 4

Outcome **E**: He rolls a square number or a multiple of 5

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 50% chance.

4. Max rolls an **eight-sided dice**. Listed below are five possible outcomes:

Outcome **A**: He rolls a multiple of 3

Outcome **B**: He rolls a cubed number

Outcome **C**: He rolls a multiple of 5

Outcome **D**: He rolls a 6 or above

Outcome **E**: He rolls a number below 2

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 25% chance.

5. Derek rolls an **eight-sided dice**. Listed below are five possible outcomes:

Outcome **A**: He rolls a multiple of 3

Outcome **B**: He rolls an odd number

Outcome **C**: He rolls a multiple of 5

Outcome **D**: He rolls a factor of 8

Outcome **E**: He rolls a number below 7

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 50% chance.

6. Sam rolls an **eight-sided dice**. Listed below are five possible outcomes:

Outcome **A**: He rolls a multiple of 2

Outcome **B**: He rolls an odd number

Outcome **C**: He rolls a number above 2

Outcome **D**: He rolls a cubed number

Outcome **E**: He rolls a number below 7

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 75% chance.

7. Jennifer rolls a **ten-sided dice**. Listed below are five possible outcomes:

Outcome **A**: She rolls a multiple of 6

Outcome **B**: She rolls an odd number less than 4

Outcome **C**: She rolls a multiple of 2

Outcome **D**: She rolls a prime number

Outcome **E**: She rolls a factor of 10

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 40% chance.

8. Joel rolls a **ten-sided dice**. Listed below are five possible outcomes:

Outcome **A**: He rolls a triangular number

Outcome **B**: He rolls a number more than 3

Outcome **C**: He rolls a cubed number

Outcome **D**: He rolls a 7 or less

Outcome **E**: He rolls a prime number

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 70% chance.

9. Gemma rolls a **two 6-sided dice and adds the total**. Listed below are five possible outcomes:

Outcome **A**: She rolls a multiple of 4

Outcome **B**: She rolls an odd number less than 4

Outcome **C**: She rolls a multiple of 2

Outcome **D**: She rolls a 6 or above

Outcome **E**: She rolls a triangular number

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have the **same** chance.

10. Ciaran rolls a **two 6-sided dice and adds the total**. Listed below are five possible outcomes:

Outcome **A**: He rolls a multiple of 3

Outcome **B**: He rolls a cubed number

Outcome **C**: He rolls a factor of 12

Outcome **D**: He rolls a prime number

Outcome **E**: He rolls a square number

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have the **same** chance.

11. Toby rolls **three 6-sided dice and adds the total**. Listed below are five possible outcomes:

Outcome **A**: He rolls a 14 or less

Outcome **B**: He rolls an odd number

Outcome **C**: He rolls a multiple of 5

Outcome **D**: He rolls a 7 or above

Outcome **E**: He rolls a number below 5

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 75% chance.

12. Sophie rolls **three 6-sided dice and adds the total**. Listed below are five possible outcomes:

Outcome **A**: She rolls a 14 or less

Outcome **B**: She rolls an odd number

Outcome **C**: She rolls a multiple of 4

Outcome **D**: She rolls a triangular more than 3

Outcome **E**: She rolls a square number

Looks at the five outcomes above. **Complete** the sentence below by writing the **correct letter** in each of the **spaces**.

Outcome _____ and outcome _____ have a 25% chance.

Answers

- 1. B and E**
- 2. B and C**
- 3. A and E**
- 4. A and B**
- 5. B and D**
- 6. E and C**
- 7. D and E**
- 8. B and D**
- 9. A and E (Remember: you can't roll a total of 1) $3/11$ and $3/11$**
- 10. C and D (Remember: you can't roll a total of 1) $5/11$ and $5/11$**
- 11. A and D (Remember: you can't roll a total of 1 or 2) $12/16$**
- 12. C and E (Remember: you can't roll a total of 1 or 2) $4/16$**