

Name: _____

PROBABILITY



Task 1

Analyse the following events and classify them as either: **Impossible, Unlikely, Even Chance, Likely** or **Certain**.

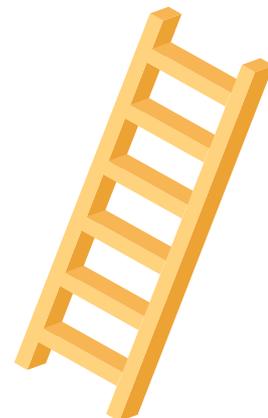
1. The sun will rise tomorrow. Certain
2. You will find a £50 note on your way to school. Unlikely
3. Flipping a fair coin and it lands on heads. Even Chance
4. It will rain at least once this month in Ireland. Likely
5. Rolling an even number on a standard six-sided die. Even Chance
6. Someday you will visit mars. Unlikely
7. You will win the lottery. Unlikely
8. Drawing a red card from a standard deck of cards. Even Chance

Task 2

Think of events in your own life and place them on the 'likelihood ladder'. A few examples have been added already. You should have **two examples** per probability.

*Students will have their own answers.
These are examples.*

Certain	There will be 7 days in the next week.	My age will increase on my next Birthday
Likely	I'll see my teacher at school tomorrow	It will rain at least once in Ireland this week.
Even Chance	Flipping a fair coin and getting tails.	Rolling a fair die and getting an odd number
Unlikely	It will snow in April in Ireland.	I will get no homework for the rest of the year.
Impossible	My dog will start speaking English.	I'll grow wings and fly



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Task 3 - Which is more likely.

For each pair of events below circle the event that you think is more likely to happen. *If you think the likelihood of both events is the same, write "Even Chance".*

- 1 **Event A:** Rolling a **6** on a standard 6-sided dice.
Event B: Rolling an **even number** on the dice.
- 2 Consider a bag with **3 red marbles** and **7 blue marbles**.
Event A: Drawing a **red marble**.
Event B: Drawing a **blue marble**.
- 3 Imagine, you choose a day at random from a week:
Event A: The day is a **weekend day**.
Event B: The day is a **weekday**.
- 4 A spinner is divided into 8 equal sections. 3 sections are green and 5 sections are yellow.
Event A: Landing on a **green section**.
Event B: Landing on a **yellow section**.
- 5 When you toss two fair coins, the probability of getting:
Event A: **Two heads**.
Event B: **A head and a tail in any order**.
- 6 Imagine a bag that contains **5 red marbles** and **5 blue marbles**.
Event A: Drawing a **red marble**.
Event B: Drawing a **blue marble**.
} Even chance
- 7 A bag contains 15 marbles: **7 are red**, **4 are blue** and **3 are green**. Compare:
Event A: Drawing a **red** marble.
Event B: Drawing a **blue or green** marble.
} Even chance.
$$\begin{array}{l} 4+3 \\ =7 \end{array}$$