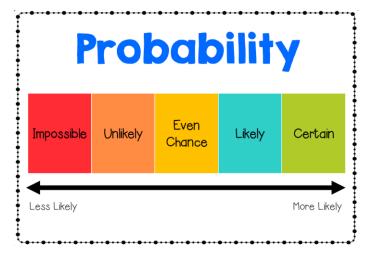


**Probability** is the **chance** that something will happen, or how likely it is that an event will occur.

We can use different terms to describe how likely something is to happen:

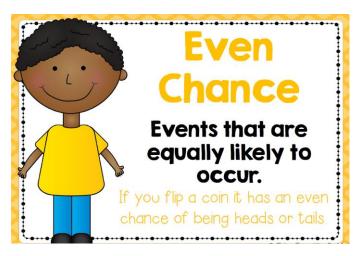












You might like to try watching this video to learn more about chance or probability:

#### Chance And Probability

Here are some activities you can try out on a sheet or in a spare copy:

A
---

	likely	unlikely	possible	impossible	certain				
١.	Write one	of the words ab	ove after each of	the sentences.					
	(a) Tomo	rrow will be Tues	day.						
	(b) Irelan	d will win the ne	xt Rugby World C	Cup.					
	(c) It will snow today.								
	(d) I will be sick tomorrow.								
	(e) I will eat today.								
	(f) I will become the next President of Ireland.								
	(g) The so	chool will close to	omorrow for a we	ek					

- 2. Write one of the words above for each of the following.
  - (a) I will pull out a blue.
- (b) I will pull out a yellow.
- (c) I will pull out a green.







В

Write 'impossible', 'unlikely', 'likely', 'possible' or 'certain' for each.

## impossible unlikely likely possible certain

- (a) What are the chances of rolling a 6 on the first throw of a dice?
- (b) What are the chances of rolling a number between 1 and 6?
- (c) What are the chances of rolling a 2 if you have 10 goes?
- (d) What are the chances of rolling a 9?
- (e) What are the chances of rolling three 6s in a row?
- (f) What are the chances of rolling an even number?
- (g) What are the chances of rolling a single-digit number?
- (h) What are the chances of rolling a two-digit number?
- Roll the dice 20 times. Make a list to see which numbers are rolled the most.



# C Try it At Home!

Get a red, green and blue block or counter. Put the three of them in a bag. Pick out one without looking. Write down what colour it was. Do this again 30 times. At the end write down how many times you picked out a red, green and blue.

Do the activity again but this time put 2 red blocks and 1 blue block in the bag. First predict what you think will happen. Will you pick out more blue or red blocks? Why?

Pick from the bag 30 times again. At the end write down how many times you picked out a red and a blue. What happened? Why?

Repeat the activity 2 more times. First put 3 red blocks and 1 blue block in the bag. Then try it with 3 red blocks and 2 blue blocks in the bag. Each time predict what you think will happen and check your prediction with the results at the end.

Did your prediction match the outcome? Why



### Most likely, less likely, least likely.

Match the sentence with the words.

1. The blue snail will win The pink snail will win The green snail will win

2. Ticket number is 60 Ticket number is >60 Ticket number is <60

3. Spinner will land on purple Most likely Spinner will land on green Less likely Spinner will land on yellow Least likely

Most likely

Less likely

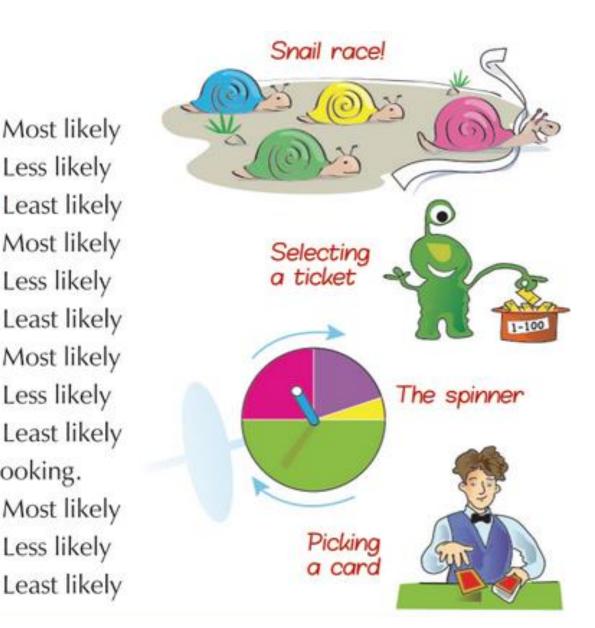
Most likely

Less likely

4. Choose a card from a deck without looking.

Card will be a 10 Most likely Card will be higher than 10 Less likely

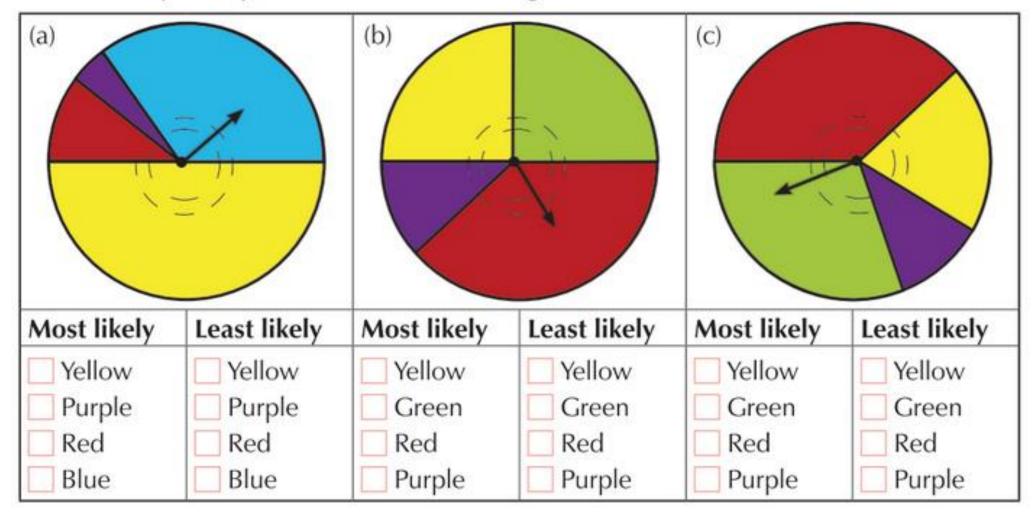
Card will be lower than 10 Least likely



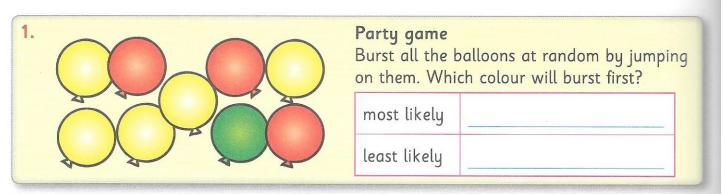


The pointer spins around. On which colour is it

- 1. most likely to stop, and
- 2. least likely to stop, for each of the following?

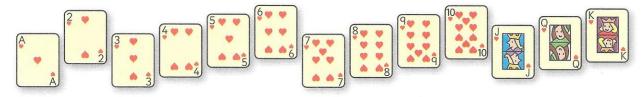


#### What are the chances?



2.	Look at the cubes in each jar. What is the chance of picking out a , or ?							
	possib	le impo	ossible	likely	unlikely	certain		
	(a)		(b)		(c)		(d)	

3. Jamie is going to place all the heart cards from a deck face-down on the table.



He turns the cards over 1 at a time. The first card he turns is What is the chance that the next card will be...



- (a) higher than a 3? \_\_\_\_\_
- (b) a heart?
- (c) a picture card? \_\_\_\_\_
- (d) a club? \_\_\_\_\_
- (e) the 3 of hearts?
- (f) lower than a 3? \_\_\_\_

Use the word box from Question 2 to answer these.



1 Choose a word from the list to go with each statement.

	possible imp	ossible definitely likely	unlikely					
(a)	You are a boy or a girl.							
(b)	You have a laptop in your pocket.							
(c)	You will stay in school until midnight tonight.							
(d)	You will have a pizza for dinner tonight.							
(e)	You will be in fifth class next year.							
(f)	You will earn €5 million before you go to bed tonight.							
(g)	You will watch TV for 10 hours today.							
(h)	You will leave Ireland for a holiday next summer.							
(i)	You are working on a page in Maths Mate 4.							
(j)	You will have dinner today.							
(k)	You are less than 15 years old.							
(l)	You will meet a very famous person in your home today.							
(m)	You will be a day younger tomorrow.							
(n)	You are in fourth clas	5						
(o)	You are older than y	ur teacher.	5					
(p)	You will find €5 on your way home.							
(q)	You will grow 55cm in the next 5 minutes.							
(r)	Today is the day bef	re tomorrow.						
Look at the 6 cubes in this bag. If you cannot see thro the bag, what are the chances of choosing:								
W		(a) a red cube? out of						
W		(b) a yellow cube? out of						
		(c) a green cube? out of						
There are 10 cubes in this bag. Read the information below and work out how many yellow, blue and red cubes are in the bag.								

There is an even chance of drawing out a red cube. There is a 1 in 5 chance of drawing out a blue cube.

blue

There is a 3 in 10 chance of drawing out a yellow cube.

yellow