

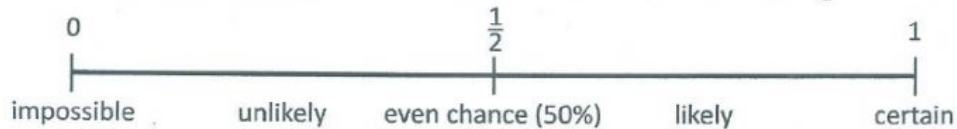
## Chance and probability

Probability measures how likely something is to happen.

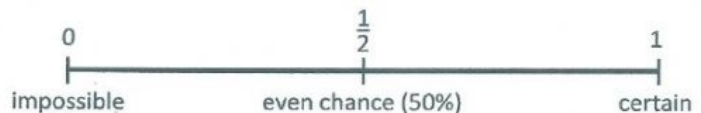
An event that is **certain** to happen has a probability of 1.

An event that is **impossible** has a probability of 0.

An event that has an **even or equal** chance of occurring has a probability of  $\frac{1}{2}$  or 50%.



- 1 Are these events impossible, certain or an even chance? Complete this table. The first one has been done for you.



Event	Probability
The month after June will be February.	<i>impossible</i>
You will get an odd number when you roll a single die.	
The year after 2010 will be 2007.	
When you flip a coin it will land on tails.	
The day after Saturday will be Sunday.	



Explain the meaning of an event having ...

- 13 A Probability of 1.

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- 14 A Probability of  $\frac{1}{2}$ .

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- 15 A Probability of 0.

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- 27 The chance of reading this question while patting a live mammoth.

- 28 The chance of tossing a coin and getting a head or a tail



Use the words above to answer these sentences.

- 21 The chance you will celebrate your 53rd birthday tomorrow.

- 22 The chance you will use your eraser today.

- 23 The chance you will loan money to the person seated closest to you.

- 24 The chance you will answer this question with your non-writing hand.

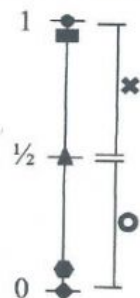
- 25 The chance the next baby born at the local hospital will be a boy.

- 26 The chance the next birth at



Place the appropriate word that matches the shape in the probability scale.

Use this word list for the symbols: Impossible, likely, unlikely, even chance, certain, highly unlikely and almost certain.



- 1  $\bullet$  = \_\_\_\_\_  
 2  $\blacktriangle$  = \_\_\_\_\_  
 3  $\blacklozenge$  = \_\_\_\_\_  
 4  $\bullet$  = \_\_\_\_\_  
 5  $\circ$  = \_\_\_\_\_