

Probability Scale

Video 251 on Corbettmaths

Examples



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Workout

Question 1: Which phrase from the box best describes the likelihood of each of these events?
You may use each phrase more than one.

Impossible Unlikely Even Chance Likely Certain

- (a) Rolling a 9 on an ordinary six sided dice.
- (b) A newborn baby being a boy.
- (c) A day picked at random ending with the letter y
- (d) Getting a tail when a coin is flipped.
- (e) It snowing in London in May.
- (f) Rolling a number greater than 1 on an ordinary six sided dice.

Question 2: Which word from the box best describes the likelihood of each of these events?

Impossible Unlikely Even Likely Certain

- (a) You throw a coin and get a Heads.
- (b) You take a green counter from a bag that only contains black counters.
- (c) May 18th 2018 is the day after May 17th 2017.

Question 3: Here are some cards



Impossible Unlikely Even Likely Certain

A card is picked at random.

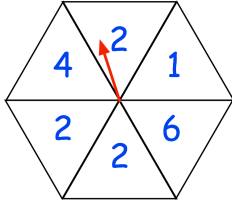
Which word from the box best describes the likelihood of each of these events?

- (a) The card has a blue star on it.
- (b) The card has a heart on it.
- (c) The card has a shape on it that is symmetrical.

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Video 251 on Corbettmaths

Question 4: A fair spinner has six equal sections.



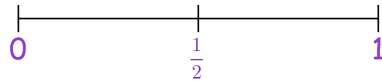
Impossible Unlikely Even Likely Certain

Which word from the box best describes the likelihood of each of these events?

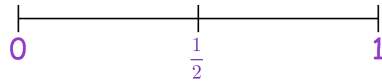
- (a) The arrow landing on an even number
- (b) The arrow landing on 4.
- (c) The number landing on 2.

Question 5: Francesca rolls an ordinary 6-sided dice.

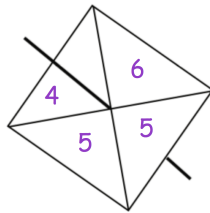
- (a) Mark with a cross the probability that Francesca gets an 8.



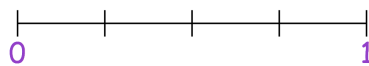
- (b) Mark with a cross the probability that Francesca gets an odd number.



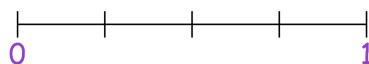
Question 6: A fair 4-sided spinner is spun once.



- (a) On the probability scale, mark with a letter A, the probability that the spinner will land on the number 4.



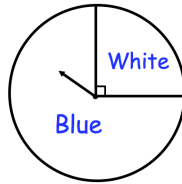
- (b) On the probability scale, mark with a letter B, the probability that the spinner will land on the number 5.



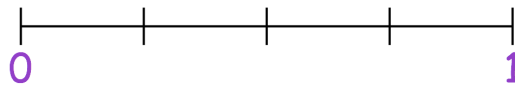
Probability Scale

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Question 7: The diagram shows a fair spinner.



(a) Which colour is the arrow least likely to land on?



(b) Mark the probability scale with an arrow to show the probability of landing on white.
Label the arrow, W.

(c) Mark the probability scale with an arrow to show the probability of landing on blue.
Label the arrow, B.

Question 8: A fair six sided dice is rolled once.

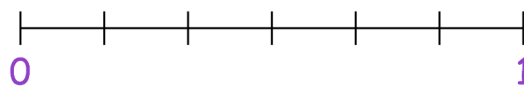


Mark the probability of each of the following events onto the probability scale.

A: The dice lands on an even number.

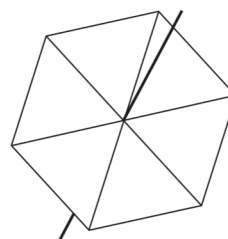
B: The dice lands on the number 5

C: The dice lands on a number less than 5.



Apply

Question 1: Curtis has a fair 6-sided spinner.
The spinner has numbers less than 7 on it.
The number 5 is the least likely number that the spinner will land on.
There is an even chance that the spinner will land on a 3.
It is impossible that the spinner will land on an even number.
Write the numbers on the spinner.



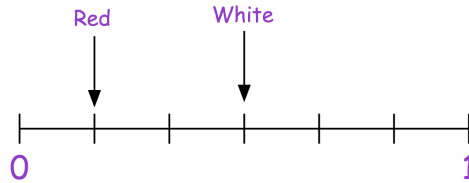
Probability Scale

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Question 2: Reggie has a bag holding red, white and green counters. Altogether there are 6 counters in the bag.

The probability scale shows the probability that a counter picked at random will be white.

It also shows the probability that a counter picked at random will be white.



Show on the probability scale the probability that a counter picked at random will be green.

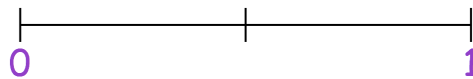
Question 3: A school offers students 3 lunchtime clubs each week: hockey, golf and cricket.

- Which clubs does Helen attend?
- Which of the children attend the cricket club?
- Which of the club do the least of the 5 children attend?
- Which child attends the most clubs?

	Hockey	Golf	Cricket
Helen	✓		✓
Leah			✓
Emily	✓	✓	✓
Mia	✓	✓	
Sally	✓		

Mr White picks one of the 5 children at random

- On the probability scale, mark with a cross the probability that he will pick a child that attends the hockey club.



Answers



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