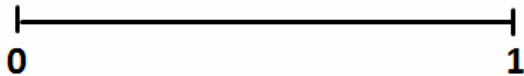


(4) Probability and relative frequency

Draw a line to connect the words that best describe the probability of each event happening.

| | |
|--|------------|
| A man growing to 10m | Certain |
| It being sunny tomorrow | Evens |
| Flipping a head on a fair coin. | Possible |
| If today is Sunday, then tomorrow is Monday. | Impossible |

Place 4 events on the probability scale below



Find the probability of rolling the number 3 on a fair six sided die.

Complete the sentence "The probability of something not happening is 1 _____"

There are 5 sections on a spinner. 2 Blue, 1 Red and 2 Green. Find the probability (in its simplest form) if the spinner is spun once it lands on (i) Blue (ii) Not Red (iii) Black (iv) Green or Red.

Which is more likely to happen? Rolling a number 4 or 5 on a fair six sided die OR flipping a tail on a fair coin?

Study the word Mississippi. If a letter is selected at random, what is the probability the letter is (a) The letter 's' (b) A vowel (c) Not the letter 'i'

The two way table below shows information about 100 students at a local school.

| | Left handed | Right handed | Total |
|-------|-------------|--------------|-------|
| Boy | 50 | | |
| Girl | | | 30 |
| Total | | 40 | |

(a) Complete the 2 way table.
(b) Find the probability that if someone is chosen from the school at random they are right handed.

Jim counts the cars that pass his house one morning. There were 100 in total. 20 Black cars pass, 30 Red, 15 Blue and 25 Silver.

(a) What is the maximum number of green cars that could have passed?
(b) What is the probability a car chosen at random was red or blue?
(c) If 25 cars passed the next day how many would you expect to be Black?

Sue plays darts. The probability she wins a game is 0.3

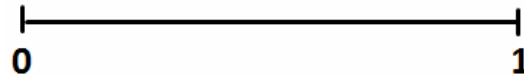
(a) What is the probability that she doesn't win a game?
(b) If she plays 60 games how many would you expect her to win?

(4) Probability and relative frequency

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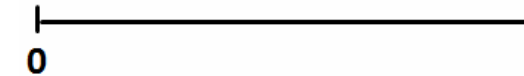
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