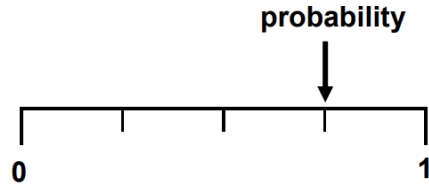


Non-calculator Questions

City & Guilds

1.

This scale shows the probability that something will happen.



What probability does the scale show?

(tick one box)

- A impossible
- B certain
- C unlikely
- D likely

(1 mark)

2.

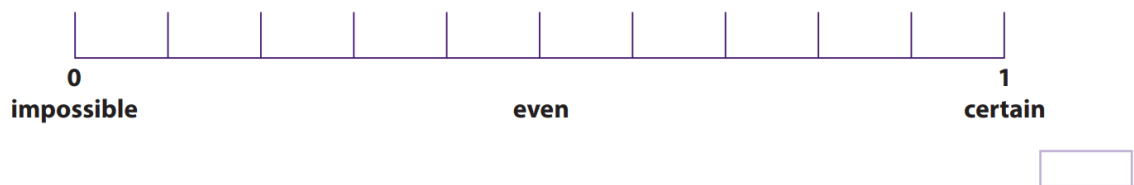
You volunteer at the Highfield Nature Reserve.

There are a total of 10 volunteers at the reserve.

Every day a name is drawn at random to see who will refill the birdfeeders.

On the scale below, mark an 'X' to indicate the probability that you will be drawn to refill the birdfeeders on a single day.

(1 mark)



Level 1 Probability on a Scale Exam Questions

3.

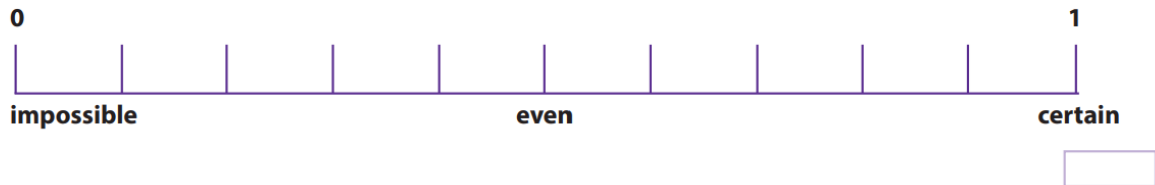
You are a driver for Highfield Delivery Service.

The company has 5 white vans, 3 green vans and 2 black vans.

Each morning you take a set of keys at random.

On the scale below, put an 'X' to indicate the probability that the keys you take will be for a black van.

(1 mark)



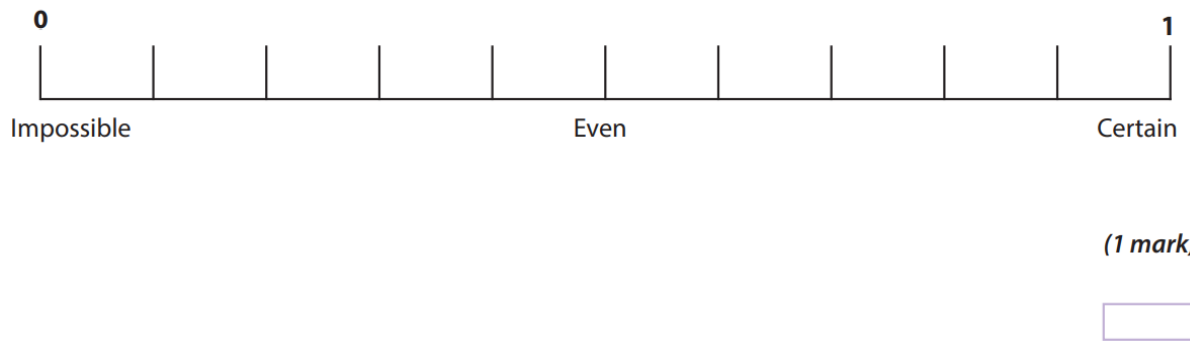
4.

Bruce has 20 t-shirts.

One fifth of them are white.

Bruce chooses one at random.

Draw an arrow on this scale to show the probability that Bruce picks a t-shirt that is NOT white.



Calculator Questions

Edexcel

1.

The probability that a visitor buys a soft drink at the show is $\frac{3}{4}$

Which of these describes this probability?

(1)

Tick a box to show your answer.

impossible

unlikely

even chance

likely

certain

NCFE

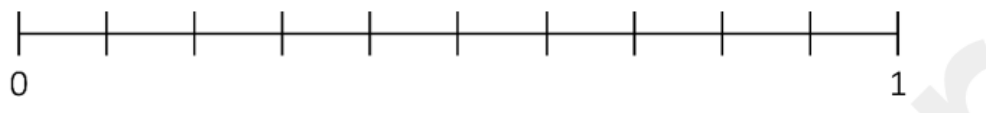
2.

Natalie knows that only 60% of the children can write their name.

She chooses one of the children at random to work with.

On the scale, mark the probability that this child can write their name.

[1 mark]



3.

Chester buys a pack of sandpaper sheets with a mixture of grades.

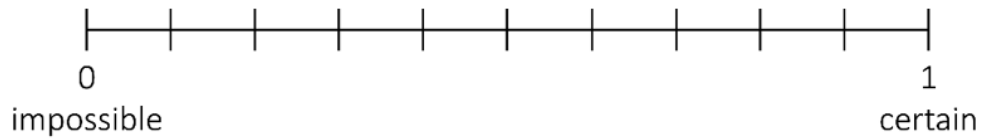
The pack contains 12 coarse grade, seven medium grade and one fine grade sheets.

Chester takes one sheet out at random.

What is the probability that the sheet Chester picks is medium grade?

Mark the probability on the scale below.

[2 marks]



4.

Abdhul is a member of the community group.

On a Saturday he either packs shopping bags or he takes part in another activity.

The table shows the probability of him taking part in each activity.

Activity	Probability
Bag-packing	0.35
Football	0.50
Computer games	0.11
Shopping	0.04

Which activity is Abdul most likely to take part in?
Explain how you decide.

[1 mark]

Your answer:

5.

When Joe gets a free drink, he puts some money in **one** of the four charity boxes by the till.

The table shows the probability that he puts money in each box.

Charity	Probability
Save the Wado	0.25
Think Pink	0.3
Open Line	0.4
The Abbey Trust	0.05

Which charity is Joe most likely to donate money to?
Give a reason for your answer.

[1 mark]

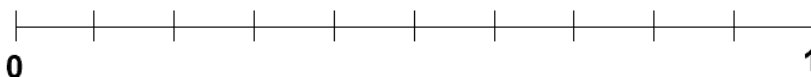
Your answer:

6

There is an even chance that the next visit to the finance webpage is made by a female student.

Mark this probability on the probability scale below.

[1 mark]



7.a)

Climate change increases the probability of flooding in some areas.

The probability of Town A being flooded in the next 50 years is $\frac{1}{10}$

The probability of Town B being flooded in the next 50 years is $\frac{1}{5}$

The probability of Town C being flooded in the next 50 years is $\frac{1}{3}$

Which town is the most likely to be flooded in the next 50 years?

[1 mark]

Your answer:

b)

Mark the probability of Town A being flooded in the next 50 years on the probability scale below.

[1 mark]



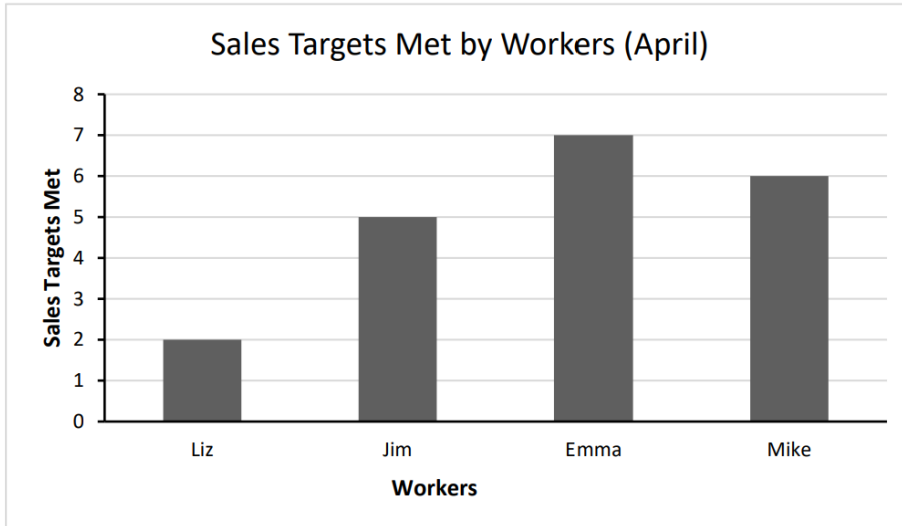
City & guilds

8.

A workplace gives one raffle ticket to its workers for each sales target that they meet.

Each month one ticket is drawn at random for a prize.

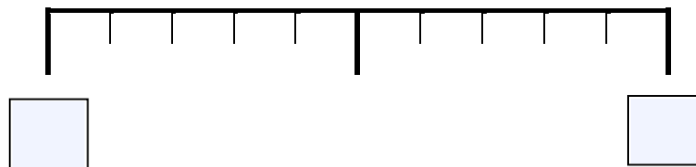
The chart shows the number of sales targets met by each worker.



What is the probability that Jim will win the April draw?

Complete the probability diagram below to show your answer.

Show your working



Open Awards

9.

Ryan's team are playing a match on Saturday. The table below shows the predicted chance of rainfall on a scale of 0 to 1 from Monday to Saturday.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Predicted chance of rainfall	0.40	0.50	0.35	0	0.92	0.88

Ryan thinks it is unlikely to rain on Saturday.

Is Ryan correct? Explain why you think this.

(1 mark)

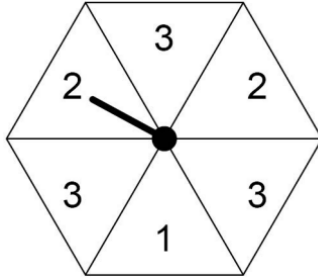
Write your answer in this box.

Level 1 Probability on a Scale Exam Questions

AQA

10.

This fair six-sided spinner is spun once.



Draw an arrow on the scale to show the probability of landing on an odd number.

[1 mark]

