

Exam questions

Question 1

Pierre is a teacher.

There are 13 boys and 17 girls in his class.

Pierre chooses one of these students at random for a presentation.

(a) Work out the probability this student is a boy.

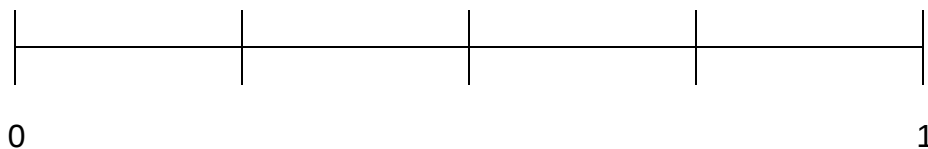
Pierre travels to work on the train.

He records whether the train is on time or late.

These are his results after 20 train journeys

- on time 15 days
- late 5 days.

(b) Mark with a cross (X) on the scale the probability the train is on time.



Question 2

A group of dancers raised some money for a charity.

Here is some information about the money raised.

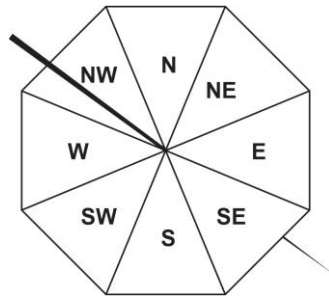
money raised (£)	number of dancers
4.99 or less	15
5 to 9.99	23
10 to 14.99	12
15 to 19.99	7
20 to 24.99	3
total	60

One of the dancers is chosen at random to give the money raised to the charity.

What is the probability that this dancer raised less than £10?

Question 3

Here is a fair 8-sided spinner.
Laura spins the spinner once.



Write down the probability that the spinner will land on a section that includes the letter E.

Question 4

Tom rolls an ordinary fair dice.



(a) Mark with a cross (X) on the scale the probability that Tom rolls an even number.



Tom has a fair dice with 12 faces of equal size.



There is one number on each face.

The numbers are 1 to 12.

Tom rolls the dice and looks at the number on the top face.

(b) What is the probability that this number is more than 5?