1 Emma buys a house for £201 500
She sells the house for £213 590

Calculate the percentage profit Emma makes.

…...............................……%

(Total for question 1 is 3 marks)

2 Mel buys a house for £352 000
She sells the house for £325 600

Calculate the percentage loss Mel makes.

…...............................……%

(Total for question 2 is 3 marks)

3   Nicole is on holiday in France.
She spends €14.50 in a cafe.

The exchange rate is £1 = €1.15

Calculate how much Nicole spends in pounds (£).

£…..................…………........

(Total for question 3 is 2 marks)

4   Amy is on holiday in Turkey
She changes £200 to Turkish lira.

The exchange rate is £1 = 7.7 Turkish lira

Calculate how many Turkish lira Amy receives

£…..................…………........

(Total for question 4 is 2 marks)

5   Mario is on holiday in Japan

He stays in a hotel for 7 nights.
The hotel costs ¥10000 for each night.

The exchange rate is £1 = ¥140

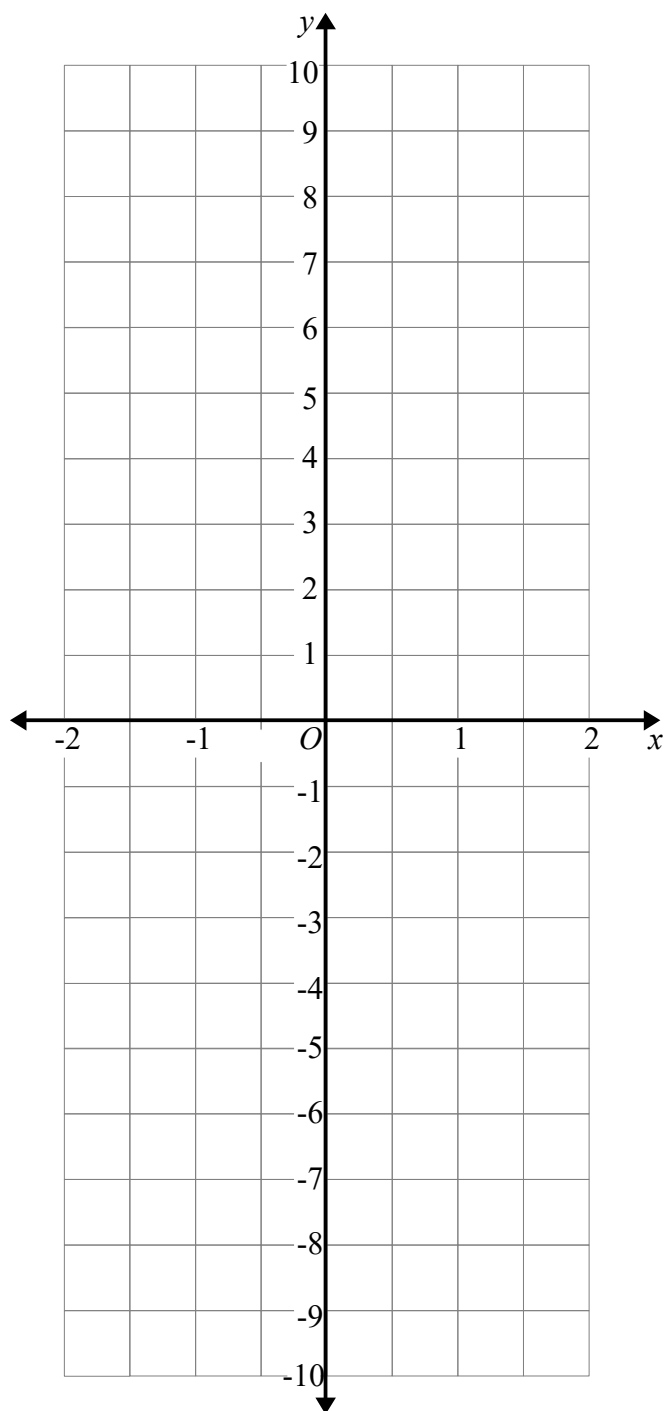Calculate how much Mario spends on the hotel in pounds.

£…..................…………........

(Total for question 5 is 2 marks)

6 On the grid, draw the graph of $y = 1 - 4x$ for values of x from -2 to 2

(Total for question 6 is 3 marks)

4   Adam is measuring the heights in cm of his tomato plants.

Height (cm)	Frequency
$140 < h \leqslant 150$	7
$150 < h \leqslant 160$	10
$160 < h \leqslant 170$	15
$170 < h \leqslant 180$	19
$180 < h \leqslant 200$	9

(a) Estimate the mean height.
Give your answer correct to 1 decimal place.

....cm

(3)

(b) Explain why your answer to part (a) is an estimate.

....……

....……

(1)

(Total for question 4 is 4 marks)

4 The scatter graph shows information about the test scores of some students in Maths and English.
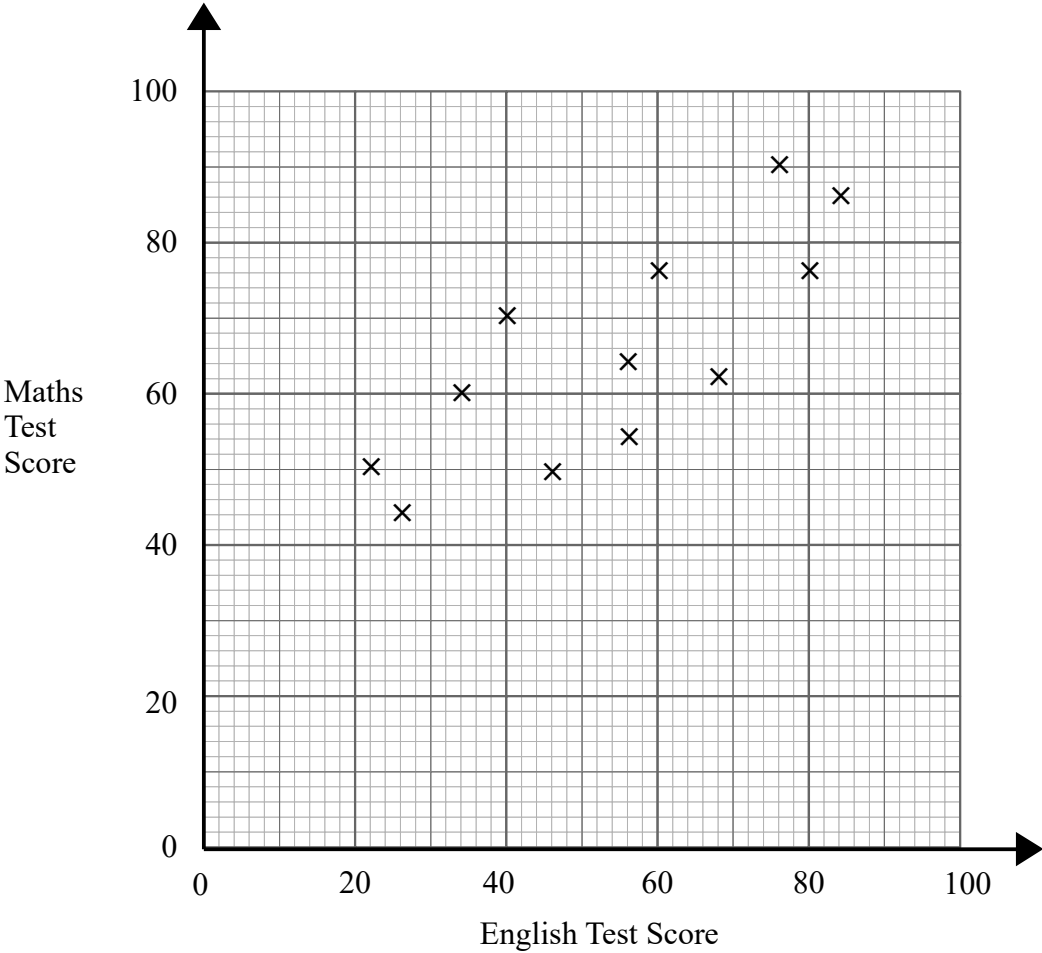
The table shows the test scores of two more students.

Maths Test Score	70	84
English Test Score	64	68

(a) Show this information on the scatter graph. (1)

Another student scored 56 on the maths test.

(b) Use the scatter graph to estimate this student's score on the English test.

....

(2)

(Total for question 4 is 3 marks)

6   Jon plays a game where he can win, draw or lose.

The probability Jon wins any game 0.5.
The probability Jon draws any game is 0.3

Jon plays two games.

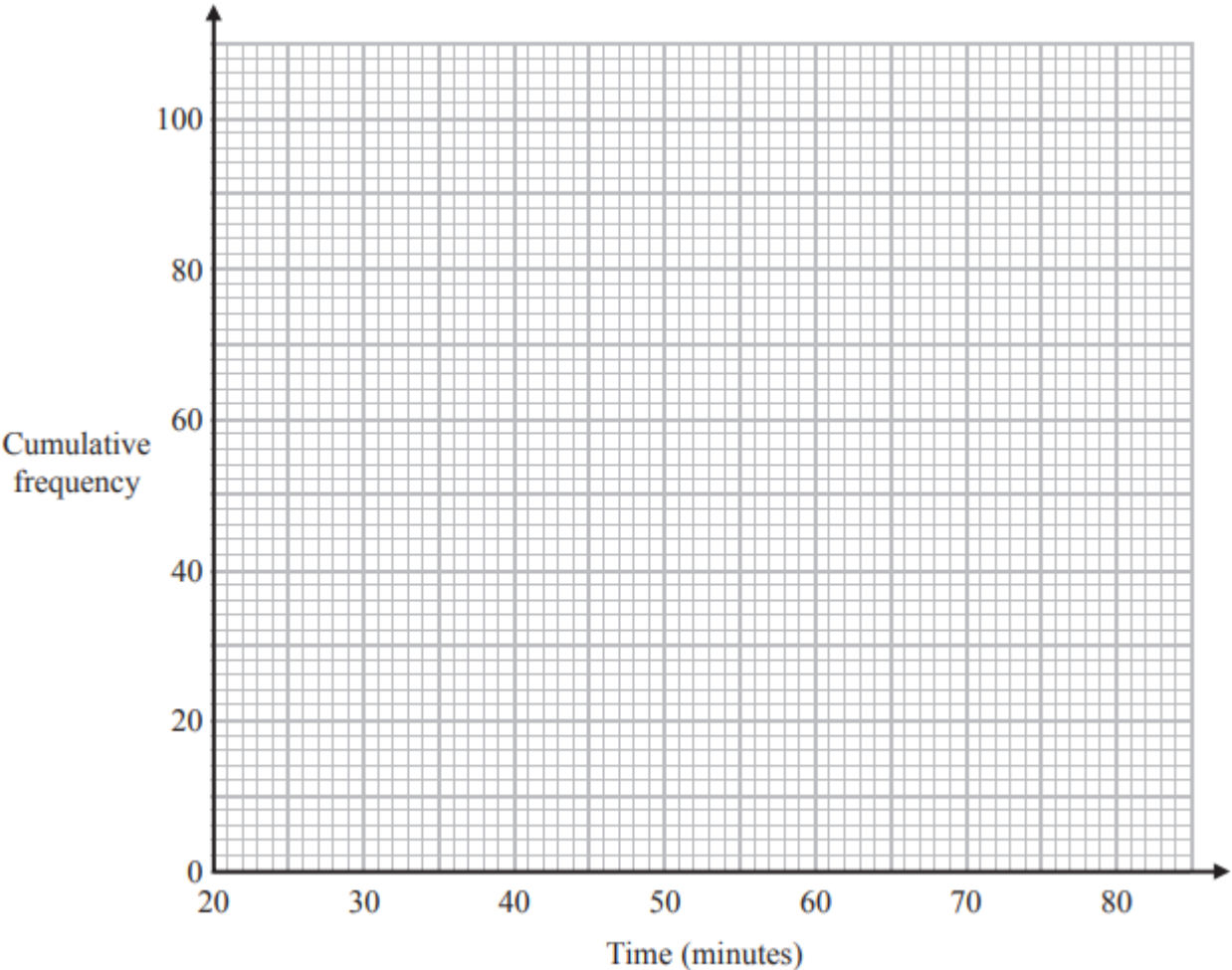Work out the probability Jon wins exactly one game.

4 The frequency table shows the time taken for 100 people to travel to an event.

Time (minutes)	Frequency
$20 < t \leqslant 30$	9
$30 < t \leqslant 40$	16
$40 < t \leqslant 50$	20
$50 < t \leqslant 60$	29
$60 < t \leqslant 70$	15
$70 < t \leqslant 80$	11

(a) On the grid, plot a cumulative frequency graph for this information.

(2)

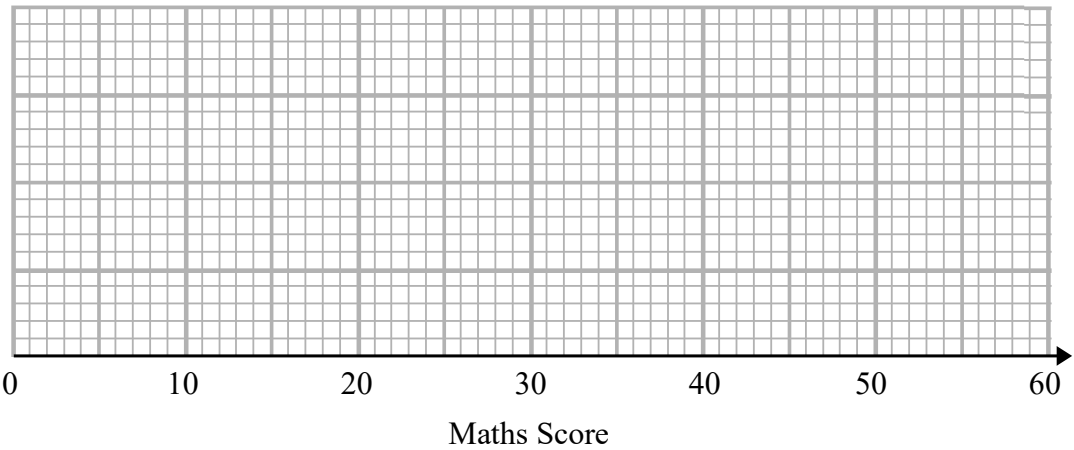(b) Find an estimate for the median time taken.

…..........................minutes

(1)

(Total for question 4 is 3 marks)

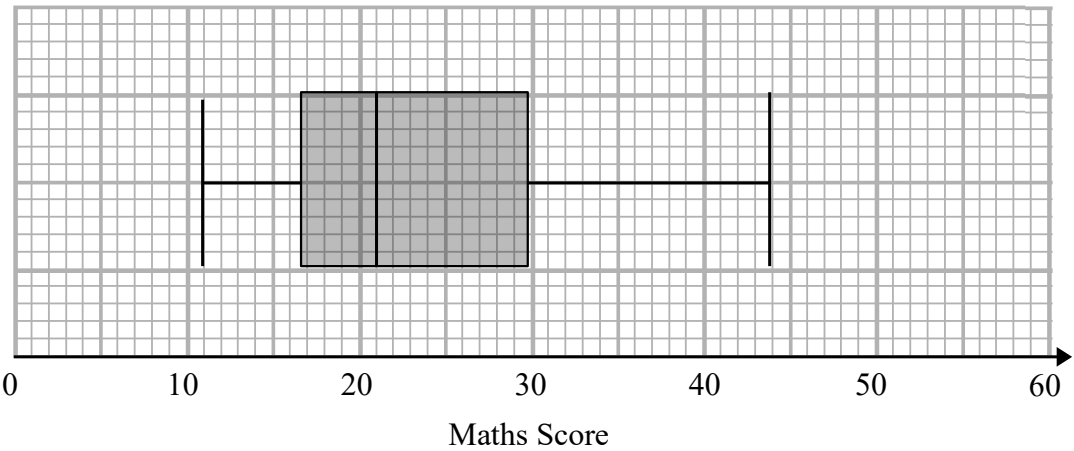**6** The table shows some information about the maths scores of students in class A.

Minimum	Lower Quartile	Median	Upper Quartile	Maximum
9	15	19	31	43

(a) Draw a box plot for this information.

Maths Score

(2)

The box plot below shows the distribution of the maths scores of students in class B.

Maths Score

(b) Compare the distribution of the maths scores of students in class A and class B.

....

....

....

....

(2)

(Total for question 6 is 4 marks)