Q1.

A coin is rolled onto a grid of squares.

It lands randomly on the grid.

To win, the coin must land completely within one of the squares.

Meera and John each roll the coin a number of times and record their results.

	Number of wins	**Number of losses**
Meera	6	44
John	28	72

(a) Work out **two** different estimates for the probability of winning.

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Answer ..... and .....

(2)

(b) Which of your estimates is the better estimate for the probability of winning?

Give a reason for your answer.

Answer .....

Reason .....

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(1)

(Total 3 marks)

Q2.(a) A **fair** coin is thrown five times.
These are the results.

tails heads heads heads heads

The coin is thrown again.

Write down the probability that it will land on tails this time.

Answer .....

(1)

(b) Jon has made a ten-sided spinner.

Describe **fully** how he can test whether it is fair or biased.

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(2)

(Total 3 marks)