Q1.

An ordinary fair dice is rolled.

(a)   Complete the tree diagram for the dice landing on 4

First spin   **Second spin**
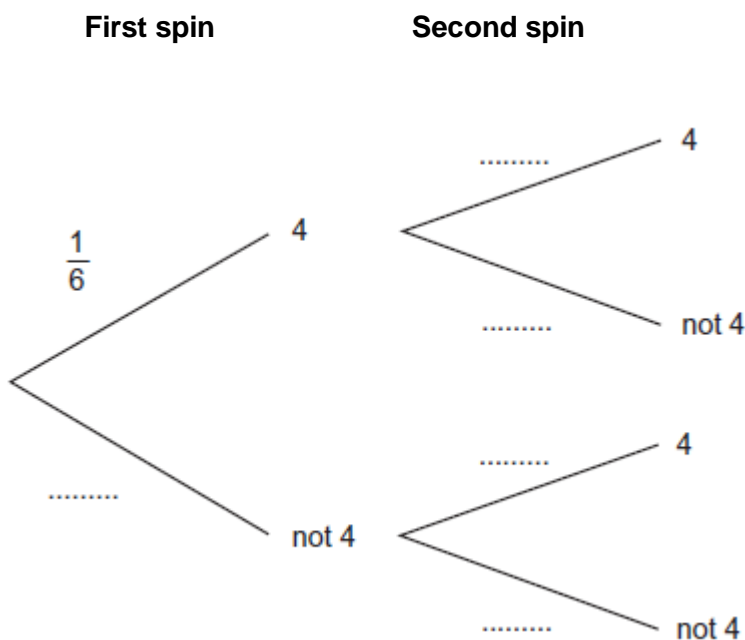
(1)

(b)   Work out the probability of the dice landing on 4 both times.

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Answer ....

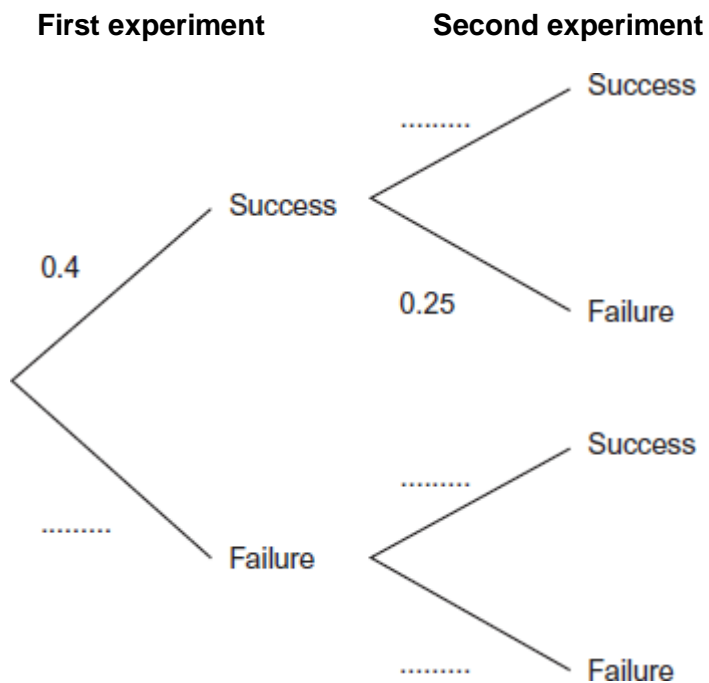**(2)**
(Total 3 marks)

Q2.

(a)   The outcomes of two independent experiments are success and failure.

Complete the tree diagram.

First experiment   **Second experiment**

(2)

(b)   Work out the probability of success in **both** experiments.

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Answer ....

(2)
(Total 4 marks)

Q3.
Two bags contain counters.

Bag A has 1 red counter and 1 blue counter.
Bag B has 1 red counter, 1 yellow counter and 1 white counter.

One counter is chosen at random from **each** bag.

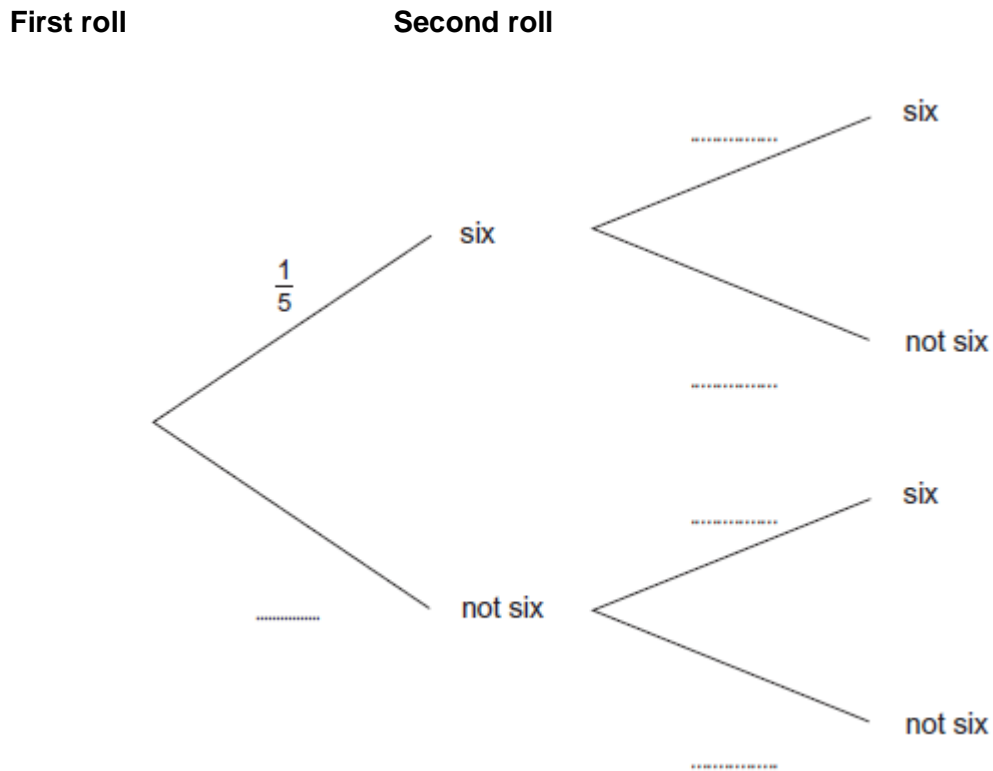What is the probability that the two red counters are chosen?

Answer ....

(Total 3 marks)

Q4. The probability of rolling a six on a biased dice is $\frac{1}{5}$

The dice is rolled twice.

(a)   Complete the tree diagram.

First roll   **Second roll**

(2)

(b)   Work out the probability of rolling exactly one six.

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Answer ....

(2)
(Total 4 marks)