

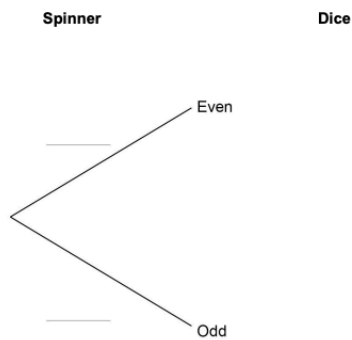
Q1. (2017)

- 16** A fair spinner has five equal sections numbered 1, 2, 3, 4 and 5
A fair six-sided dice has five red faces and one green face.
The spinner is spun.
If the spinner shows an even number, the dice is thrown.

(A)

- 16 (a)** Complete the tree diagram for the spinner and the dice.

[2 marks]



(B)

- 16 (b)** Work out the probability of getting an even number and the colour green.

[2 marks]

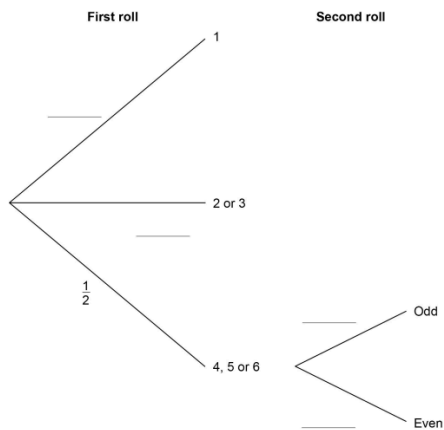
Q2. (2019)

- 6** Anna plays a game with an ordinary, fair dice.
- If she rolls 1 she wins.
If she rolls 2 or 3 she loses.
If she rolls 4, 5 or 6 she rolls again.
- When she has to roll again,
if she rolls an odd number she wins
if she rolls an even number she loses.

(A)

- 6 (a) Complete the tree diagram with the four missing probabilities.

[2 marks]



(B)

- 6 (b) Is Anna more likely to win or to lose?
You **must** work out the probability that she wins.

[4 marks]

Q3. (2021)

- 19 Items made at a factory have to pass two checks.
90% pass the first check.
The items that fail are scrapped.
99% of the items that pass the first check pass the second check.
The items that fail are scrapped.

- 19 (a) Complete the tree diagram.

[2 marks]

