Name: _____

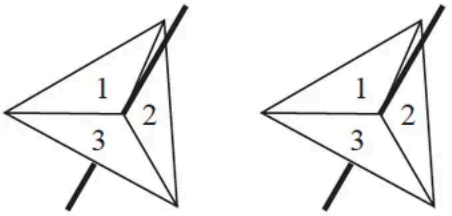
GCSE (1 - 9) Probability Trees	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2020, Paper 3F, Q27
2	Edexcel, GCSE, Autumn 2018, Paper 1F, Q27
3	Edexcel, GCSE, Summer 2018, Paper 3F, Q22
4	Edexcel, GCSE, November 2022, Paper 2F, Q26
5	Edexcel, GCSE, Summer 2022, Paper 2F, Q20

1

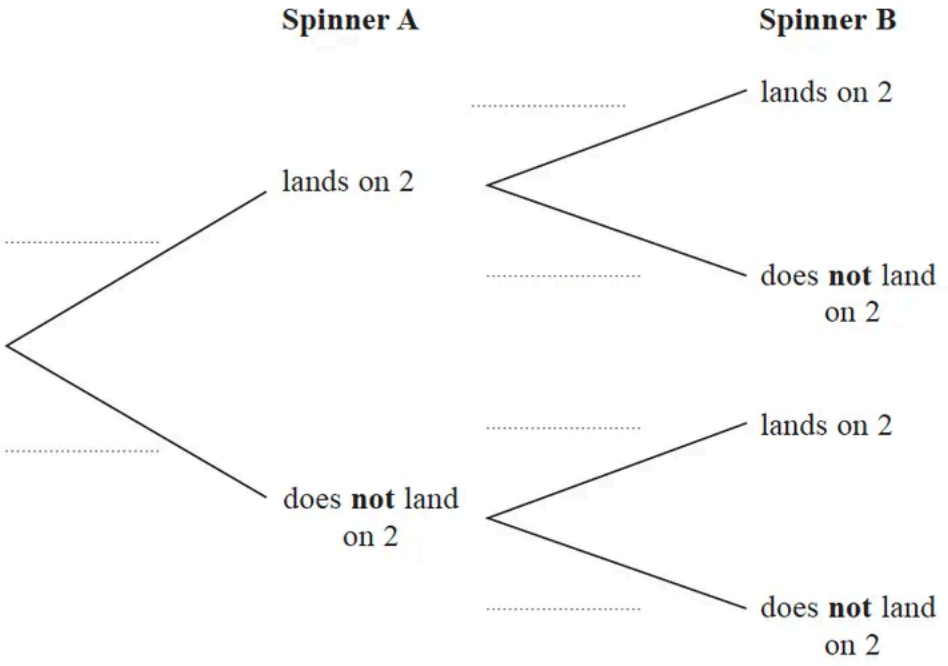
Amanda has two fair 3-sided spinners.



Spinner A **Spinner B**

Amanda spins each spinner once.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that Spinner A lands on 2 and Spinner B does **not** land on 2

.....

(2)

(Total for Question 27 is 4 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q27]

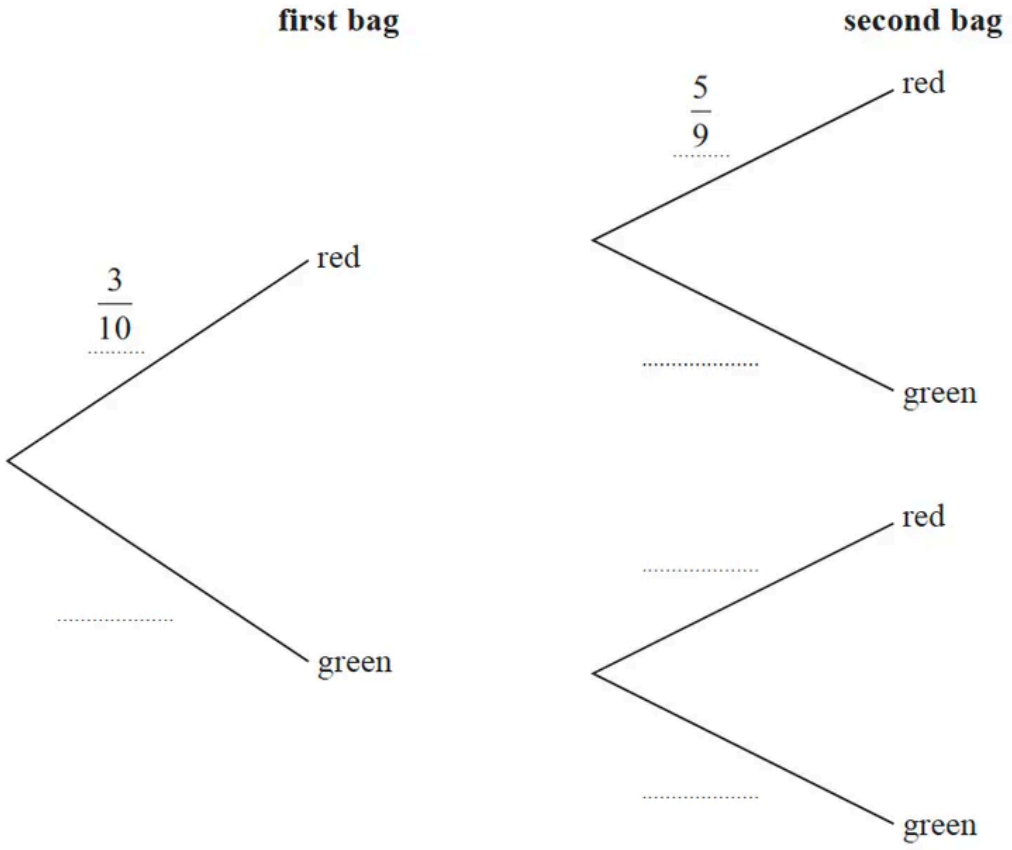
2

Amina has two bags.

In the first bag there are 3 red balls and 7 green balls.
In the second bag there are 5 red balls and 4 green balls.

Amina takes at random a ball from the first bag.
She then takes at random a ball from the second bag.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that Amina takes two red balls.

.....

(2)

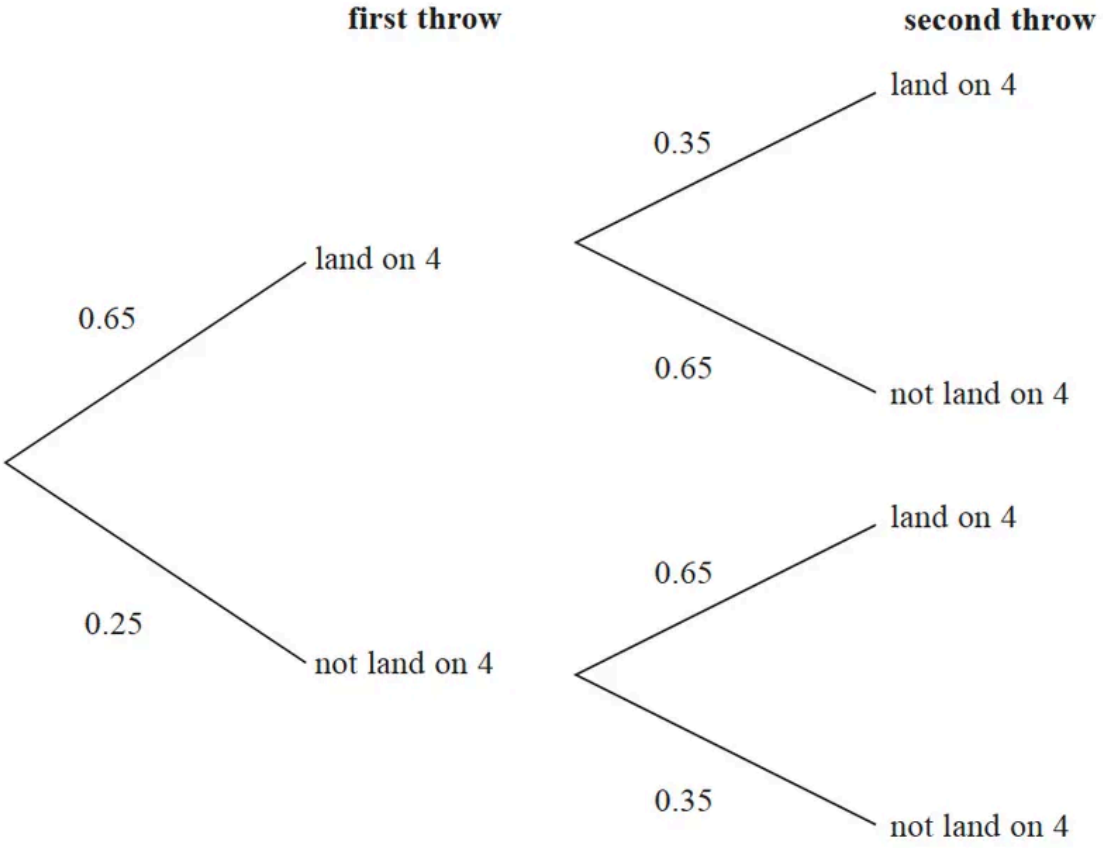
(Total for Question 27 is 4 marks)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q27]

3

When a biased 6-sided dice is thrown once, the probability that it will land on 4 is 0.65
The biased dice is thrown twice.

Amir draws this probability tree diagram.
The diagram is **not** correct.



Write down **two** things that are wrong with the probability tree diagram.

.....

.....

.....

.....

(Total for Question 22 is 2 marks)

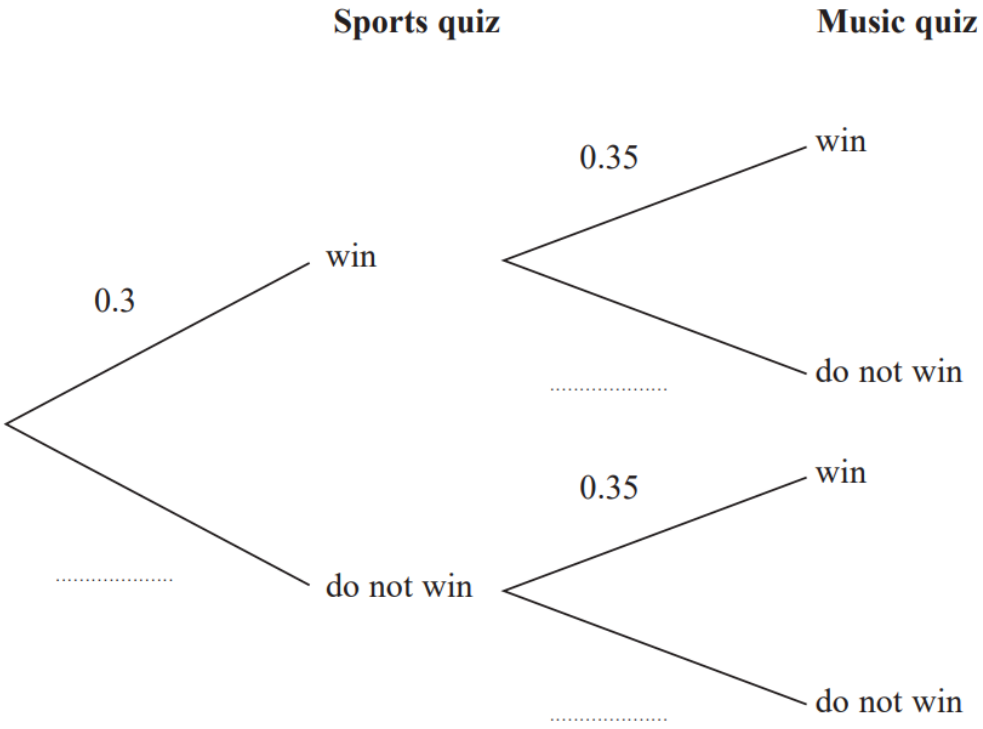
[Edexcel, GCSE, Summer 2018, Paper 3F, Q22]

4

One weekend the Keddie family is going to do a sports quiz and a music quiz.

The probability that the family will win the sports quiz is 0.3
The probability that the family will win the music quiz is 0.35

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that the Keddie family will win both the sports quiz and the music quiz.

.....

(2)

(Total for Question 26 is 4 marks)

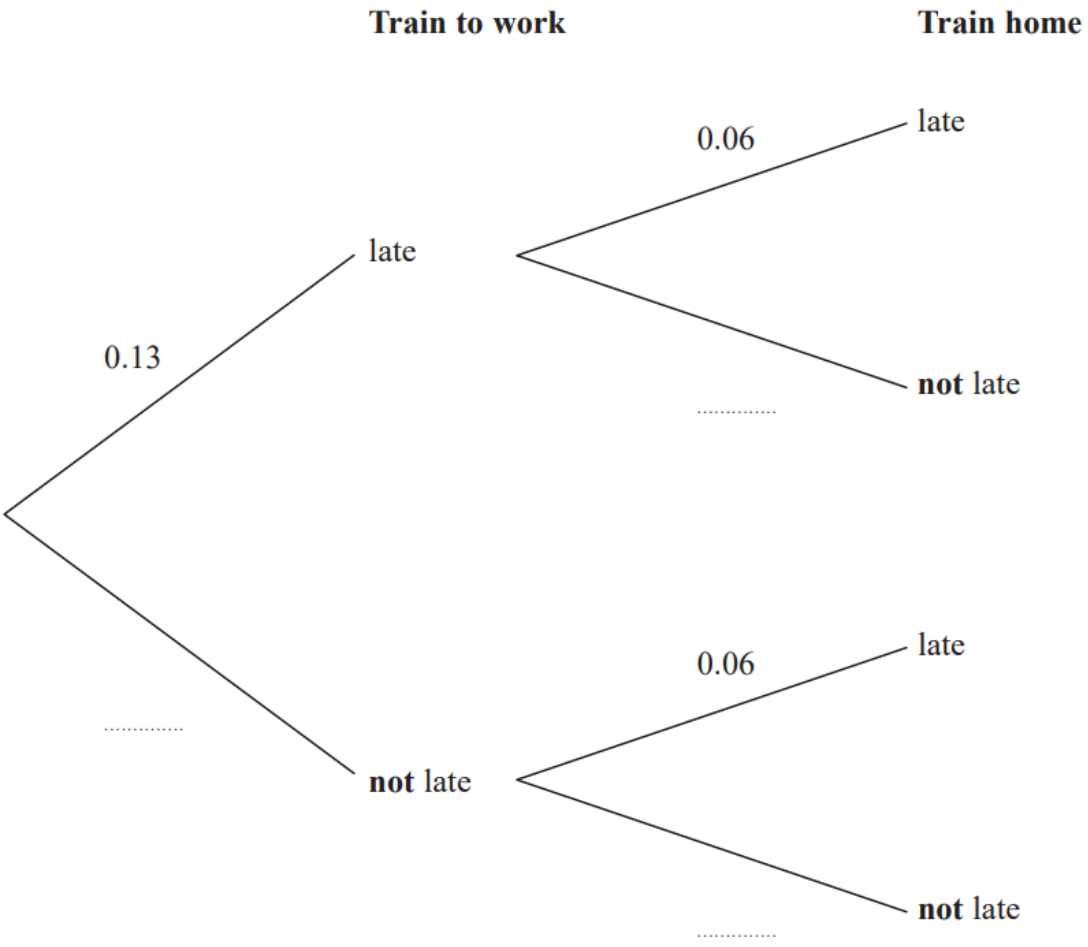
[Edexcel, GCSE, November 2022, Paper 2F, Q26]

5

Lorena gets a train at the same time each morning to go to work.
She gets a train at the same time each evening to come home.

The probability tree diagram shows the probabilities of each train arriving late.

(a) Complete the probability tree diagram.



(2)

For a day that Lorena goes to work,

(b) work out the probability that the train to work and the train home will both arrive late.

.....

(2)

(Total for Question 20 is 4 marks)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q20]