

Probability Trees

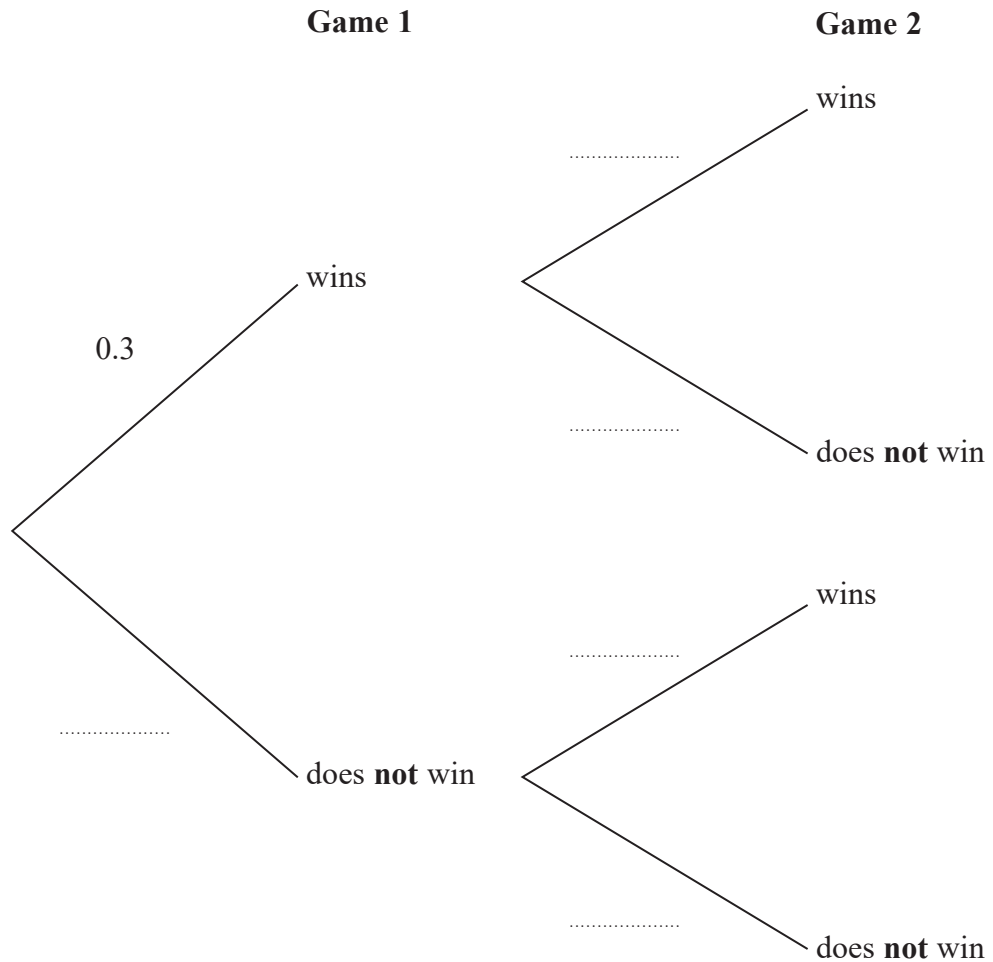
November 2024 Paper 3

20 Dan is playing cards.

The probability that he will win a game of cards is 0.3

Dan plays two games of cards.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that Dan does not win either game.

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(2)

(Total for Question 20 is 4 marks)

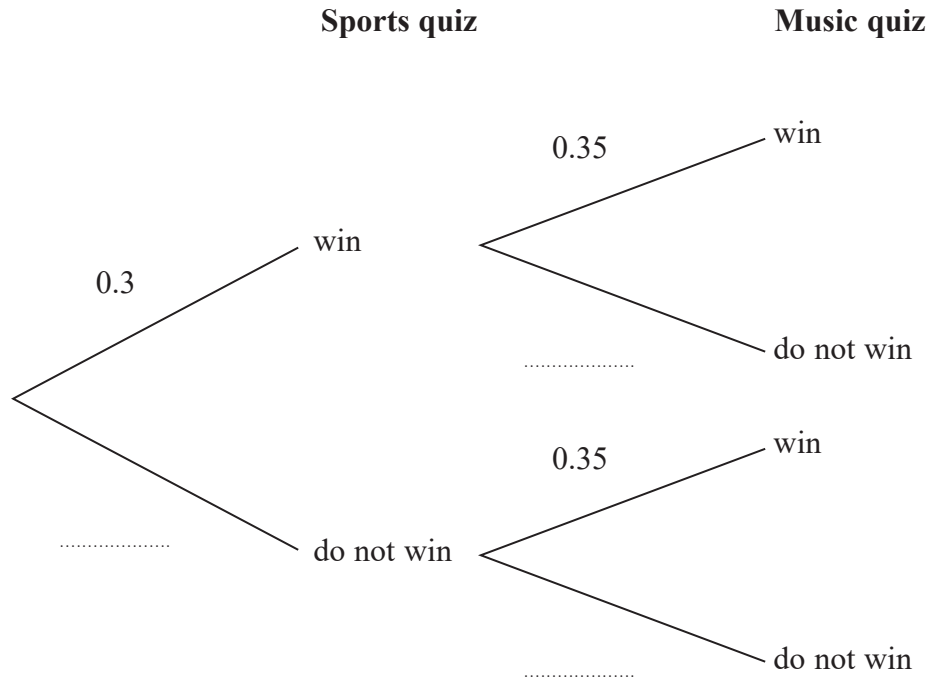
November 2022 Paper 3

26 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.

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(2)

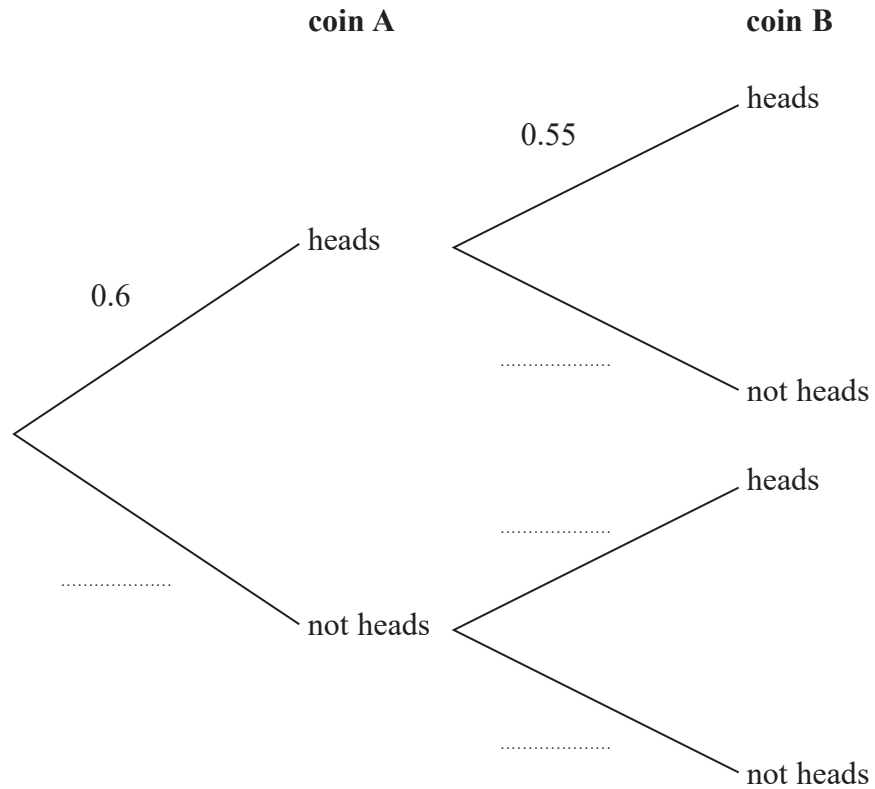
(Total for Question 26 is 4 marks)

June 2024 Paper 3

27 Tim has two biased coins, coin **A** and coin **B**.
He is going to throw both coins.

The probability that coin **A** will land on heads is 0.6
The probability that coin **B** will land on heads is 0.55

(a) Complete the probability tree diagram.



(2)

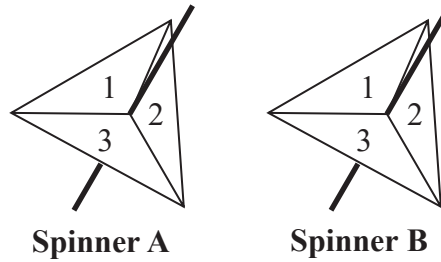
Tim throws coin **A** once and he throws coin **B** once.

(b) Work out the probability that both coins land on heads.

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(2)

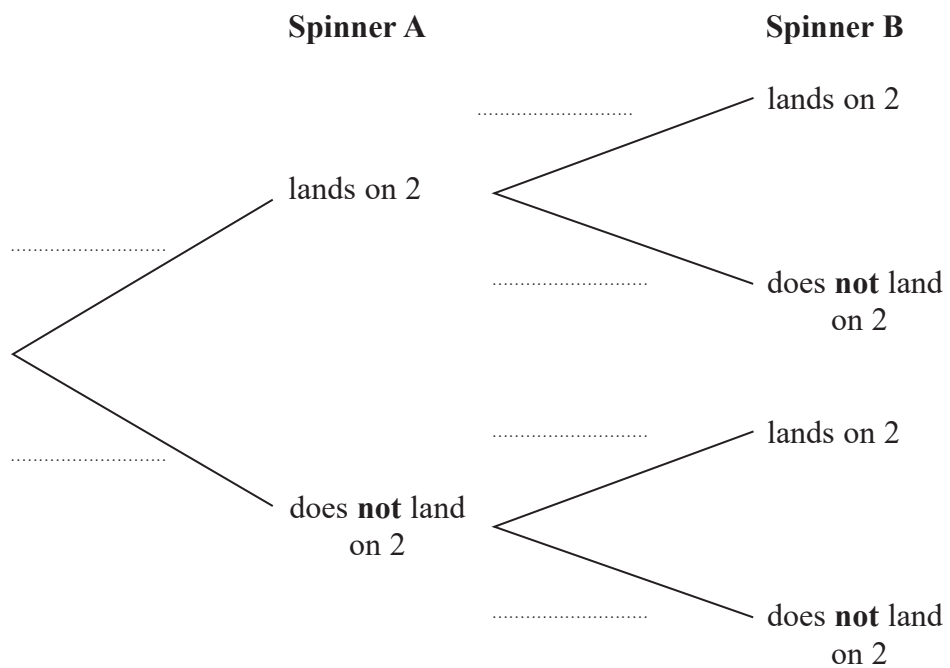
(Total for Question 27 is 4 marks)

27 Amanda has two fair 3-sided spinners.



Amanda spins each spinner once.

(a) Complete the probability tree diagram.



(2)

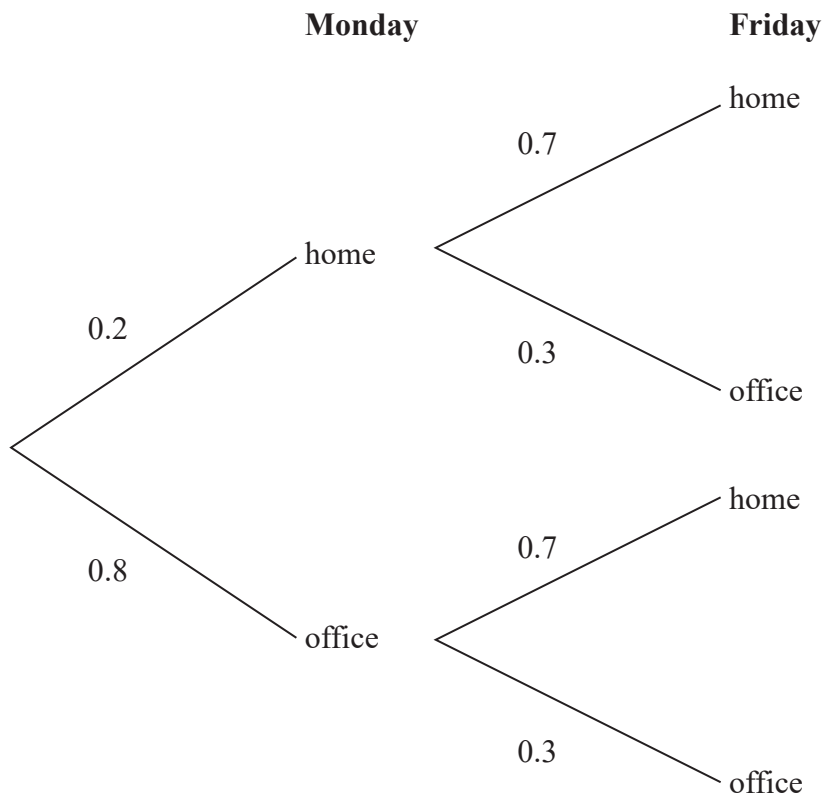
(b) Work out the probability that Spinner A lands on 2 and Spinner B does **not** land on 2

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(2)

(Total for Question 27 is 4 marks)

June 2023 Paper 1

31 The probability tree diagram shows the probabilities that Shayla will work at home or will work at the office on two days next week.



Work out the probability that Shayla will work at home on Monday and work at the office on Friday.

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(Total for Question 31 is 2 marks)
