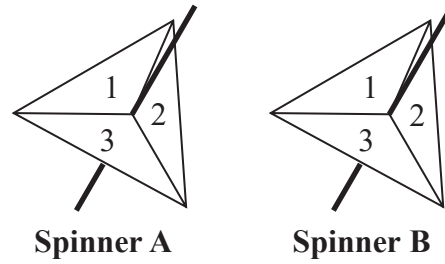
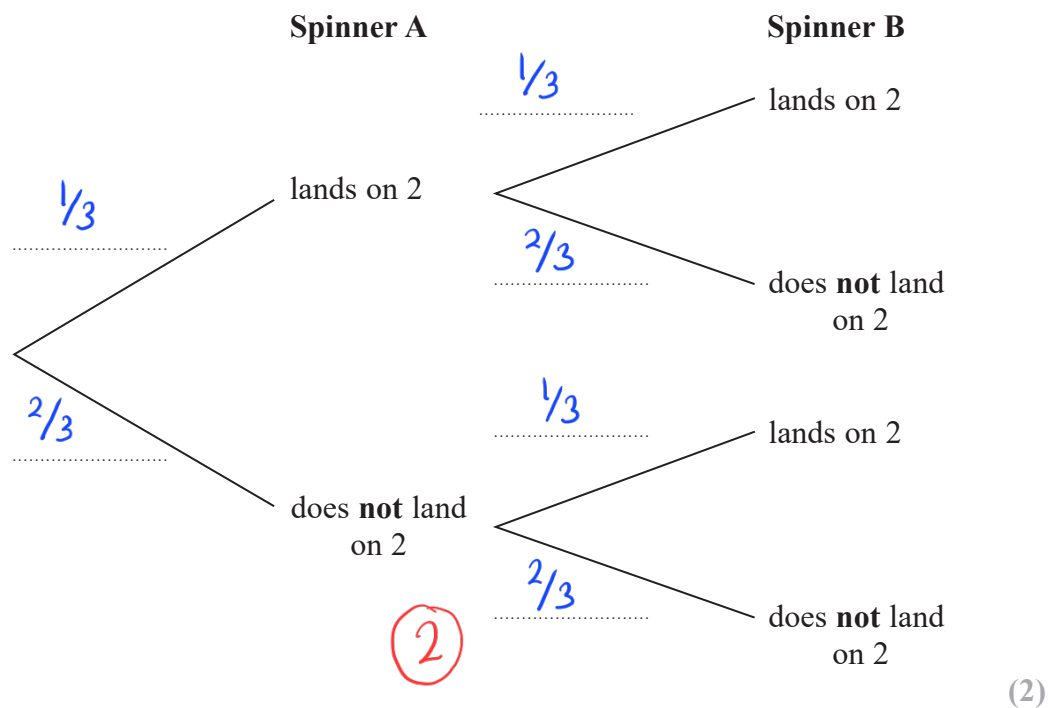


1 Amanda has two fair 3-sided spinners.



Amanda spins each spinner once.

(a) Complete the probability tree diagram.



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

$$= \frac{1}{3} \times \frac{2}{3} \quad \textcircled{1}$$

$$\therefore \frac{2}{9} \quad \textcircled{1}$$

Horizontal path in probability tree = multiply the probability

$$\frac{2}{9}$$

(2)

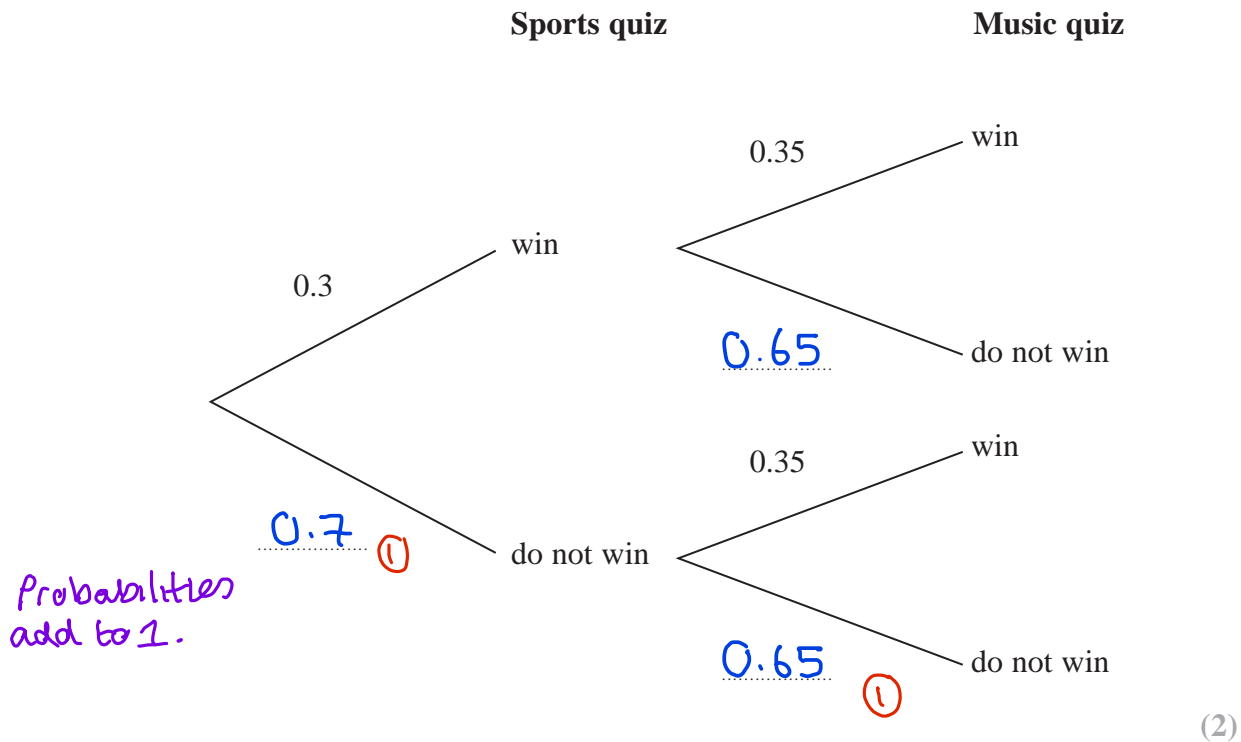
(Total for Question 1 is 4 marks)

- 2 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.



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

Moving horizontally through branches
 \Rightarrow multiply probabilities

$$\text{win both} = 0.3 \times 0.35 = 0.105$$

$$\underline{0.105}$$

(2)

(Total for Question 2 is 4 marks)

