

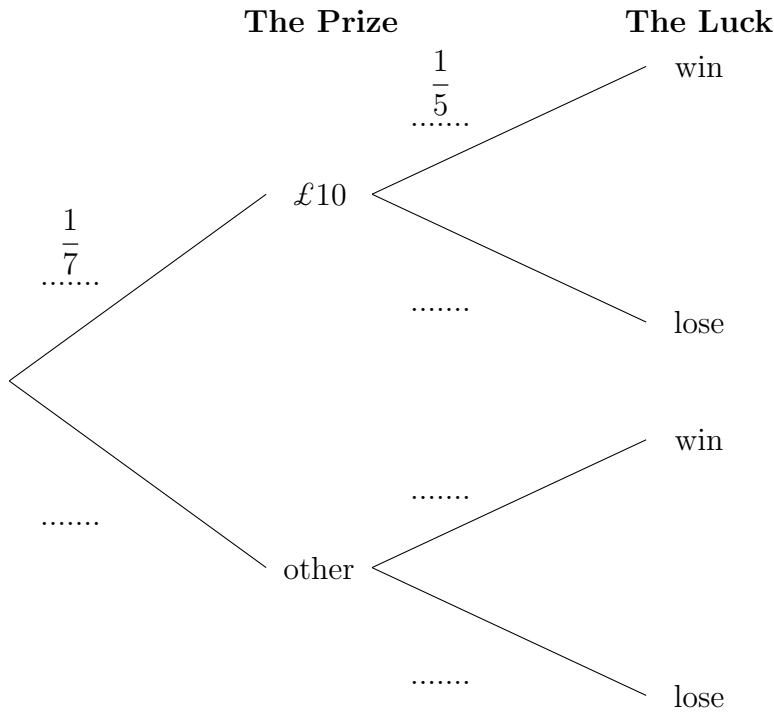
1. A game at a fair involves spinning two fair spinners.

The first spinner is called “The Prize” and the second spinner is called “The Luck”.

The Prize is a 7-sided spinner with £10, £5, £3, £2, £1, £1 and £1 written on the sides.

The Luck is a 5-sided spinner with “win” written on 1 side and “lose” written on 4 sides.

(a) Complete the probability tree diagram.



(b) Work out the probability of spinning £10 and spinning lose.

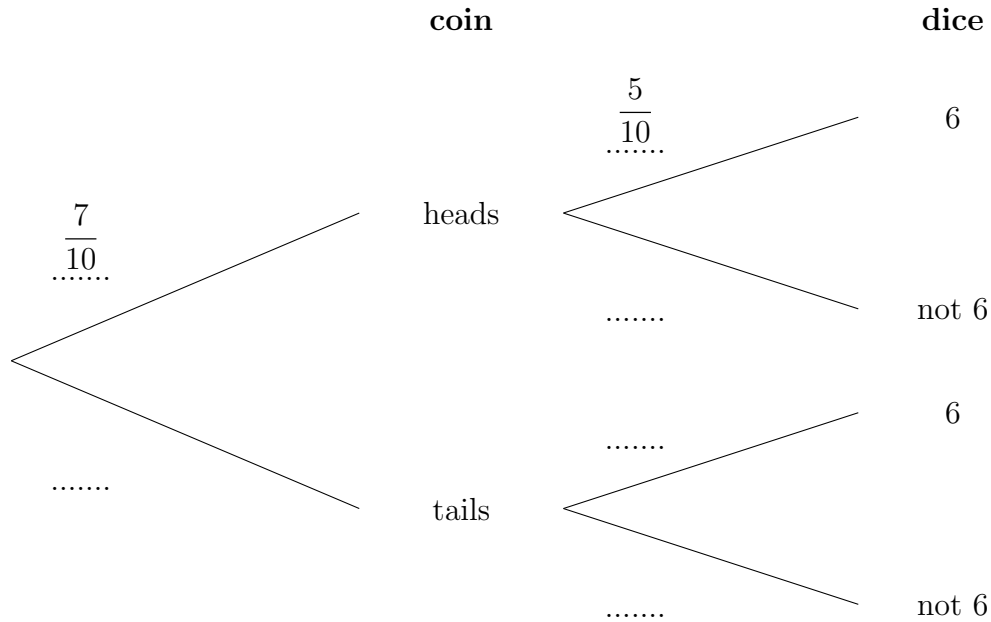
(b) .....

2. Dakota throws a biased coin and then rolls a biased dice.

The probability that the biased coin is a head is  $\frac{7}{10}$

The probability that the biased dice scores a six is  $\frac{5}{10}$

(a) Complete the probability tree diagram.



(b) Work out the probability of Dakota getting a head and a 6

(b) .....

## Answers

1. (a) **Prize: £10:**  $\frac{1}{7}$ , **other:**  $\frac{6}{7}$   
**Luck: win:**  $\frac{1}{5}$ , **lose:**  $\frac{4}{5}$

(b) .

$$(b) \dots \frac{4}{35} \dots$$

$$\text{FYI: } \frac{1}{7} \times \frac{4}{5} \text{ MI}$$

2. (a) **coin: heads:**  $\frac{7}{10}$ , **tails:**  $\frac{3}{10}$   
**dice: 6:**  $\frac{5}{10}$ , **not 6:**  $\frac{5}{10}$

(b)

$$(b) \dots \frac{35}{100} \dots$$

$$\text{FYI: } \frac{7}{10} \times \frac{5}{10} \text{ MI}$$