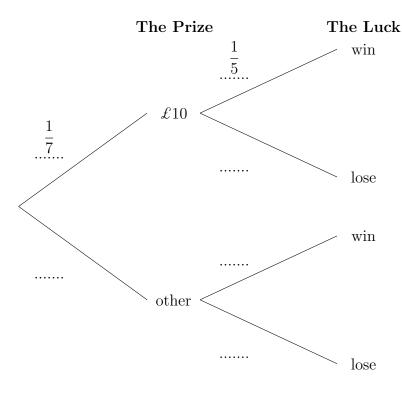
1. A game at a fair involves spinning two fair spinners.

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.

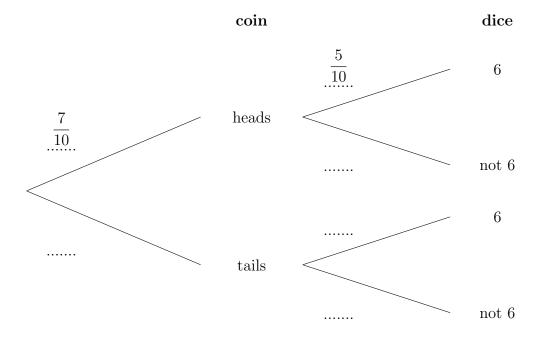
(b)

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) $\dots \frac{4}{35} \dots$ **FYI:** $\frac{1}{7} \times \frac{4}{5} M1$

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

(b) $\dots \frac{35}{100} \dots$ **FYI:** $\frac{7}{10} \times \frac{5}{10} M1$

(b)