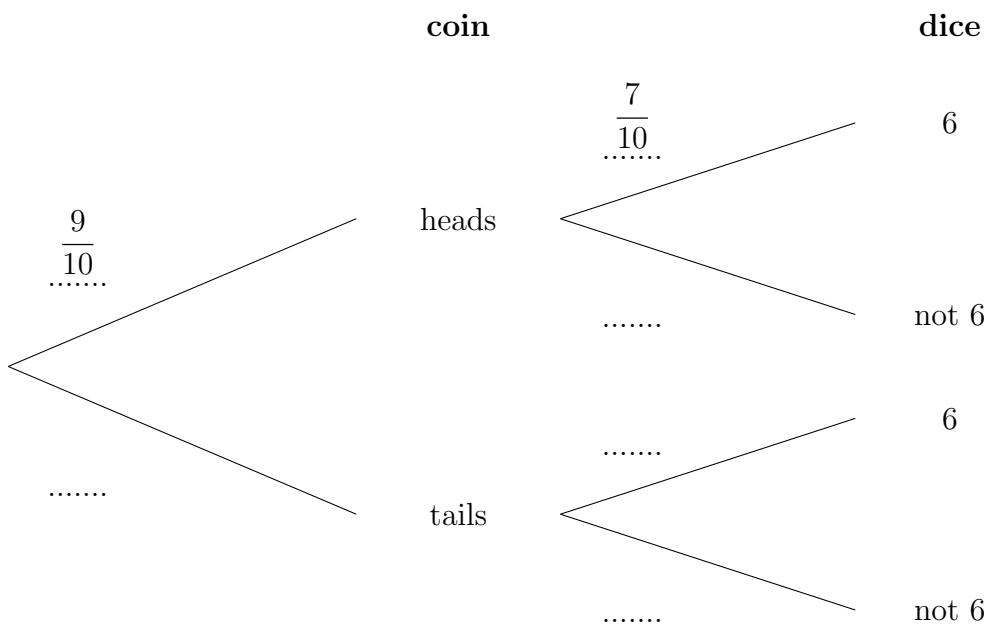


1. Bob throws a biased coin and then rolls a biased dice.

The probability that the biased coin is a head is  $\frac{9}{10}$

The probability that the biased dice scores a six is  $\frac{7}{10}$

- (a) Complete the probability tree diagram.



- (b) Work out the probability of Bob getting a head but not a 6

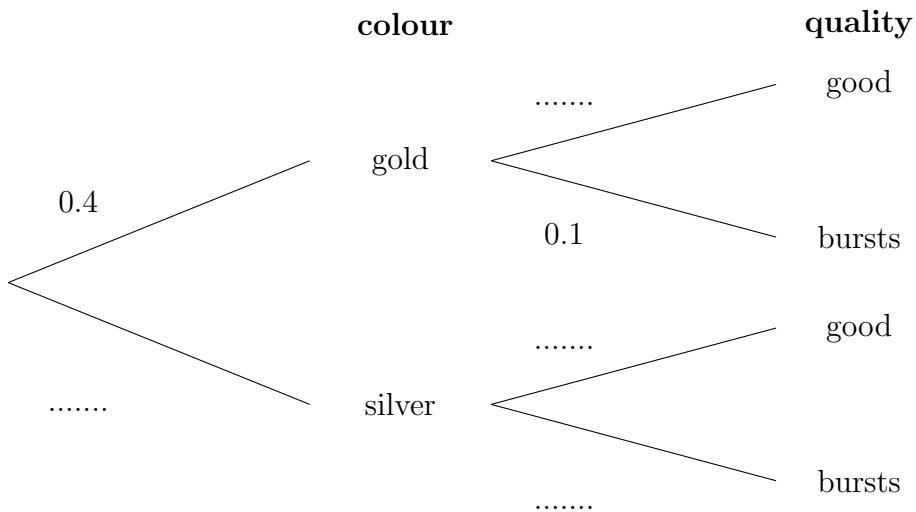
2. Addison selects a balloon at random from a packet.

The packet contains only gold and silver balloons.

The probability she selects a gold balloon is 0.4

The probability that a balloon bursts when she blows it up is 0.1

- (a) Complete the probability tree diagram.



- (b) Work out the probability of Addison blowing up a good silver balloon.

3. Ibrahim has a box containing 5 blue and 3 red counters.

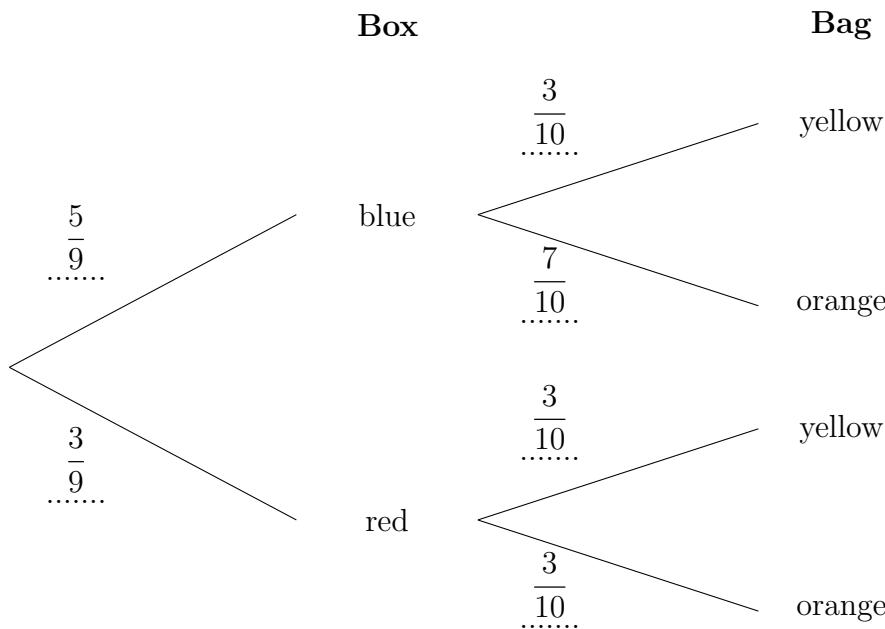
He also has a bag containing 3 yellow and 7 orange counters.

Ibrahim takes at random one counter from the box.

Ibrahim takes at random one counter from the bag.

He draws this probability tree diagram.

The diagram is **not** correct.



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

1. ....
- .....
2. ....
- .....

