A picture containing drawing

Description automatically generated**Probability Trees GREEN**

**Question 1**

Jayne has 12 coloured balls in a bag. 5 of the balls are yellow and the rest are blue. She removes a ball at random from the bag and notes the colour before replacing it. She then chooses a second ball.

a) Draw a tree diagram showing all possible outcomes.

b) Calculate the probability that:

i) She selects two blue balls

ii) She selects a yellow then a blue ball

iii) She selects two balls of the same colour

iv) She selects two balls of different colours

**Question 2**

Kelvin has 15 chocolates left in a box. 11 are strawberry creams and 4 are orange creams. Kelvin takes two chocolates (one after the other) from his box and eats them.

a) Draw a tree diagram showing all possible outcomes.

b) Calculate the probability that:

i) He eats two strawberry creams

ii) He eats an orange cream and then a strawberry cream

iii) He eats two of the same chocolate

iv) He eats two different chocolates

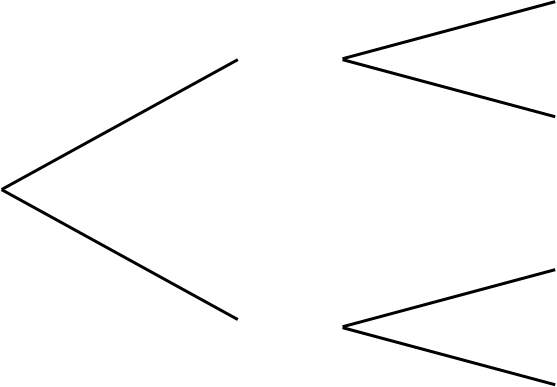
A picture containing drawing

Description automatically generated**Probability Trees AMBER**

**Question 1**

Jayne has 12 coloured balls in a bag. 5 of the balls are yellow and the rest are blue. She removes a ball at random from the bag and notes the colour before replacing it. She then chooses a second ball.

a) Draw a tree diagram showing all possible outcomes.

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b) Calculate the probability that:

i) She selects two blue balls (blue AND blue)

ii) She selects a yellow then a blue ball (yellow AND blue)

iii) She selects two balls of the same colour

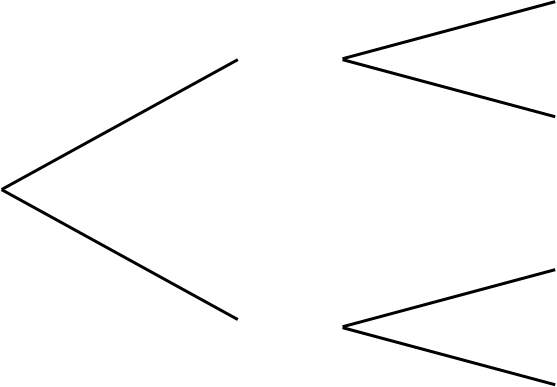
(yellow AND yellow OR blue AND blue)

iv) She selects two balls of different colours

**Question 2**

Kelvin has 15 chocolates left in a box. 11 are strawberry creams and 4 are orange creams. Kelvin takes two chocolates (one after the other) from his box and eats them.

a) Draw a tree diagram showing all possible outcomes.

****

b) Calculate the probability that:

i) He eats two strawberry creams

ii) He eats an orange cream and then a strawberry cream

iii) He eats two of the same chocolate

iv) He eats two different chocolates

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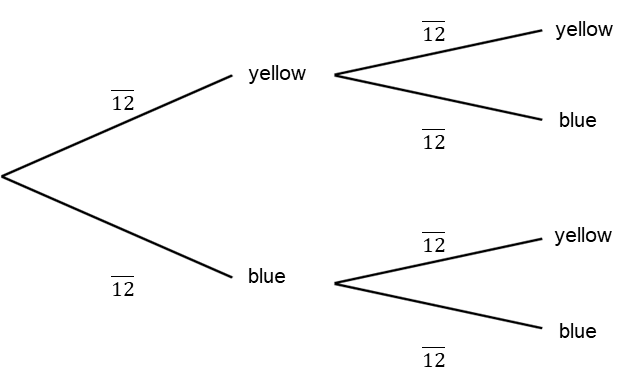
Description automatically generated**Probability Trees RED**

**Question 1**

Jayne has 12 coloured balls in a bag. 5 of the balls are yellow and the rest are blue. She removes a ball at random from the bag and notes the colour before replacing it. She then chooses a second ball.

a) Draw a tree diagram showing all possible outcomes.

First choice Second choice



b) Calculate the probability that:

i) She selects two blue balls (blue AND blue)

ii) She selects a yellow then a blue ball (yellow AND blue)

iii) She selects two balls of the same colour

(yellow AND yellow OR blue AND blue)

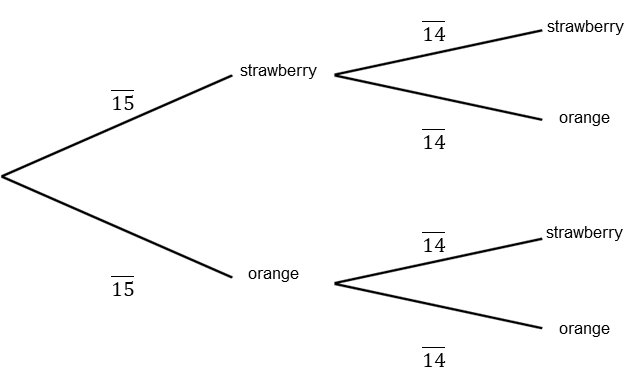
iv) She selects two balls of different colours

**Question 2**

Kelvin has 15 chocolates left in a box. 11 are strawberry creams and 4 are orange creams. Kelvin takes two chocolates (one after the other) from his box and eats them.

a) Draw a tree diagram showing all possible outcomes.

First choice Second choice



b) Calculate the probability that:

i) He eats two strawberry creams

ii) He eats an orange cream and then a strawberry cream

iii) He eats two of the same chocolate

iv) He eats two different chocolates