

1. There are 18 counters in a bag. 8 red, 4 yellow and the rest are purple.

Write down the probability of selecting:

(i) Red ..... (3 marks)

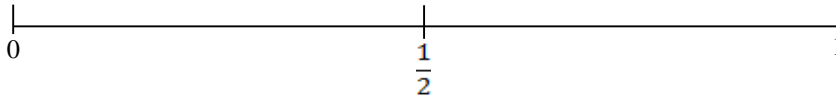
(ii) Not purple .....

(iii) Yellow or purple .....

(3 marks)

2. On the probability scale below, mark with an X

The probability of being **not** born in the winter.



(1 mark)

3. The table below shows the probabilities of choosing a counter from a bag.

Red	Blue	Green	Orange
x	0.24	0.3	x

The probability of red and orange is the same

Work out the value of  $x$ .

$x = \dots\dots\dots$

(1 mark)

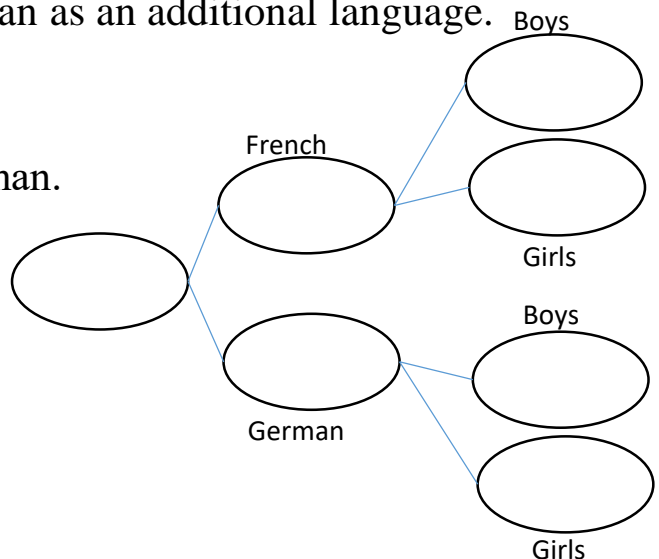
4. In Year 7, you learn French or German as an additional language.

There is 125 students in Year 7

52 are studying French

31 out of the '75 girls' studied German.

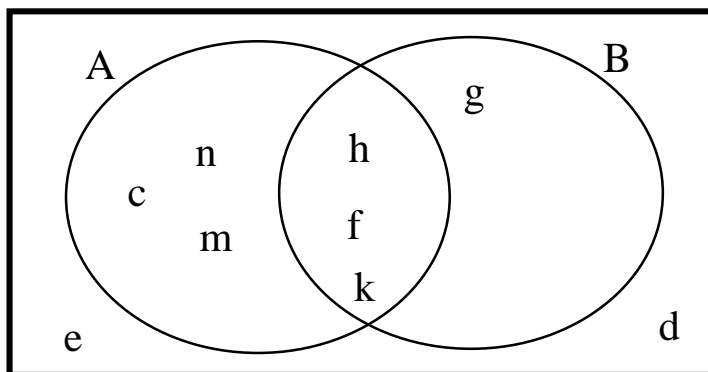
(a) Complete the frequency tree.



(b) How many boys study French?

(3 marks)

5. Below is Venn diagram showing some data.



Write down the probability of selecting:

(i)  $A'$  .....

(ii)  $A \cap B$  .....

(iii)  $A \cup B$  .....

(3 marks)

6. Hannah is going to roll 2 fair 6 sided dice.

She will then product the scores together.

(a) Draw a sample space diagram to show this.

(b) Calculate the probability of getting a total of 12.

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(4 marks)

Score =