

1. There are 12 counters in a bag. 8 red, 4 yellow and the rest are purple.

Work out the probability of selecting:

- (i) Purple
- (ii) Not purple
- (iii) Yellow

(3 marks)

2. On the probability scale, mark with an X the probability of a snow day in the winter.



(1 mark)

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

Red	Blue	Orange
x	0.24	x

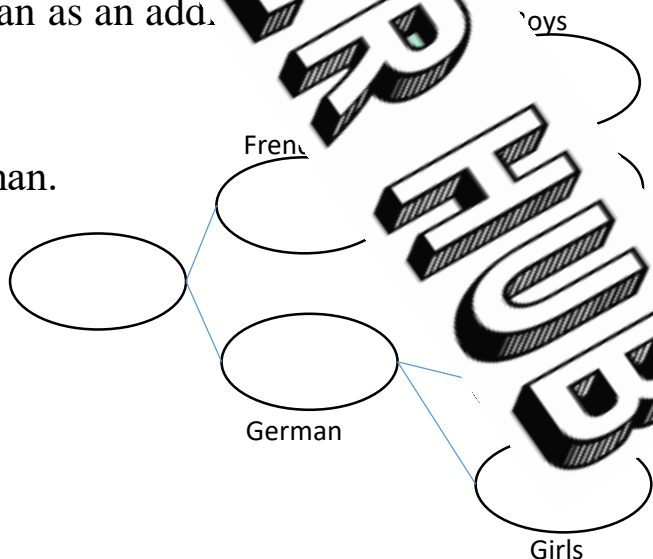
The probability of red and orange is the same. Work out the value of x .

$x = \dots\dots\dots$
(1 mark)

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

There are 125 students in Year 7
52 are studying French
31 out of the '75 girls' studied German.

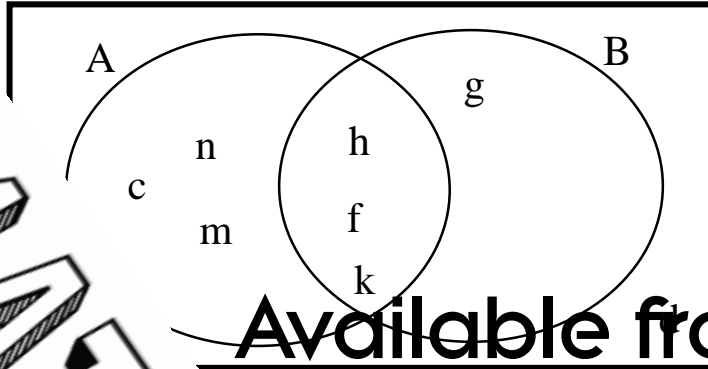
(a) Complete the frequency tree.



(b) How many boys study French?

(3 marks)

5. Below is a Venn diagram showing some data.



Available from

Write down

selecting

my TES

account

(i) A'

(ii) $A \cap B$

(iii) $A \cup B$

(3 marks)

6. Hannah is going to roll 2 fair

She will then product the scores

(a) Draw a sample space diagram

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

(3 marks)

Score =