

1. There are 16 counters in a bag. 5 red, 4 yellow and the rest are green.

Write down the probability of selecting:

(i) Green

$$\frac{7}{16}$$

(ii) Not red

$$\frac{11}{16}$$

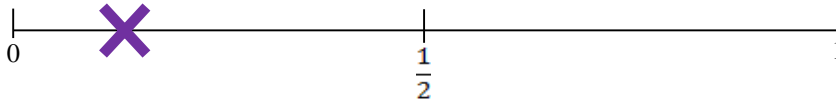
(iii) Green or yellow

$$\frac{11}{16}$$

(3 marks)

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

The probability of rolling a number less than 3 on a dice.



(1 mark)

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

Red	Blue	Green	Orange
0.4	x	x	x

The probability of blue, green and orange is the same  
Work out the value of  $x$ .

$$x = 0.2$$

(1 mark)

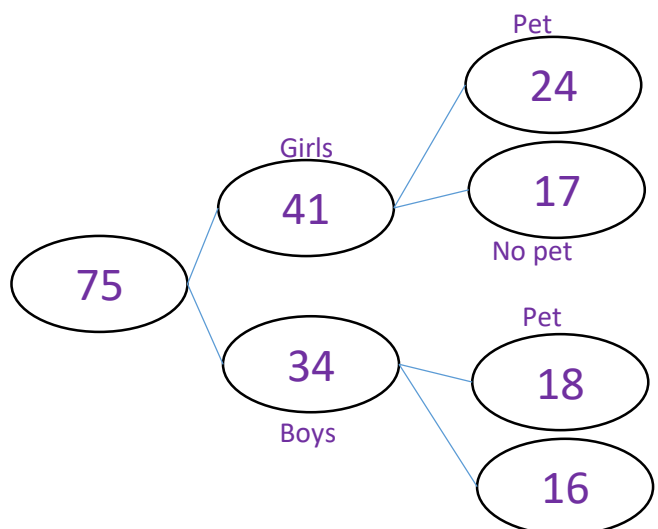
4. There are 75 members of a group.

34 of the members were boys

18 of the girls have a pet

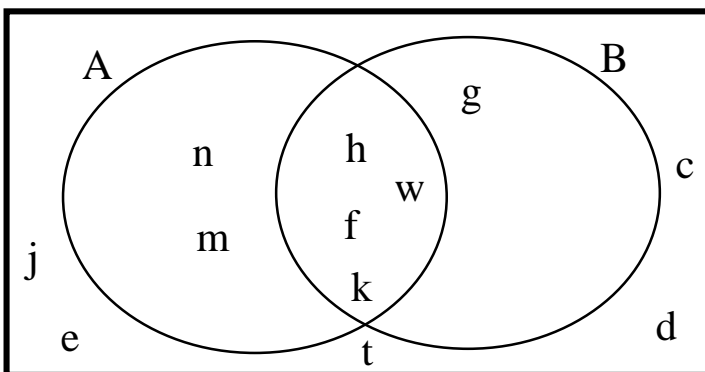
17 of the boys don't have a pet.

(a) Draw a frequency tree.



(4 marks)

5. Below is Venn diagram showing some data.



Write down the probability of selecting:

(i)  $A'$

$\frac{1}{6}$   
.....

(ii)  $A \cap B$

$\frac{1}{3}$   
.....

(iii)  $A \cup B$

$\frac{7}{12}$   
.....

(3 marks)

6. Hannah is going to roll 2 fair dice.

She will then sum the scores together.

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

x	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

(b) Calculate the probability of getting a total between 4 and 7.

$\frac{1}{4}$   
.....

(3 marks)

Score =