

1. In a bag of counters, there are 5 red, 3 green and 6 pink.

Work out the probability of selecting:

- (i) A red counter .....  
 (ii) A green counter .....  
 (iii) Not red .....  
 (3 marks)

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2. On the probability scale, mark with an X the probability of rolling a 3 on a six sided dice.



(1 mark)

3. The table below shows the probability of picking a counter from a bag.

Red	Blue	Orange
0.2	0.35	0.1

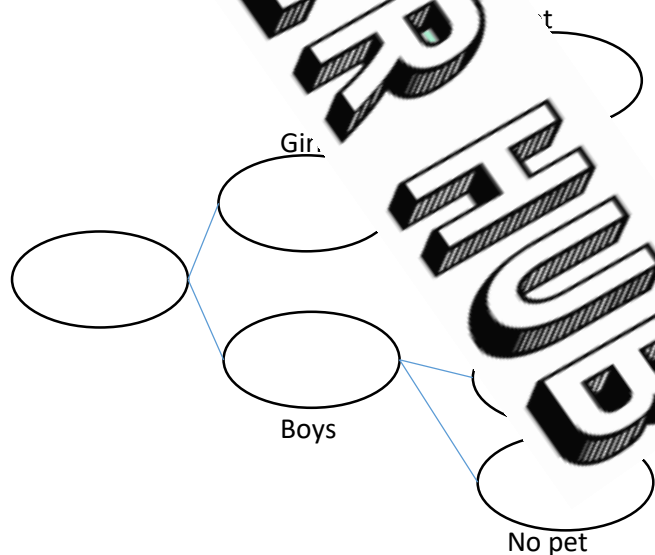
Work out the value of  $x$ .

(1 mark)

4. There are 40 members of a group.

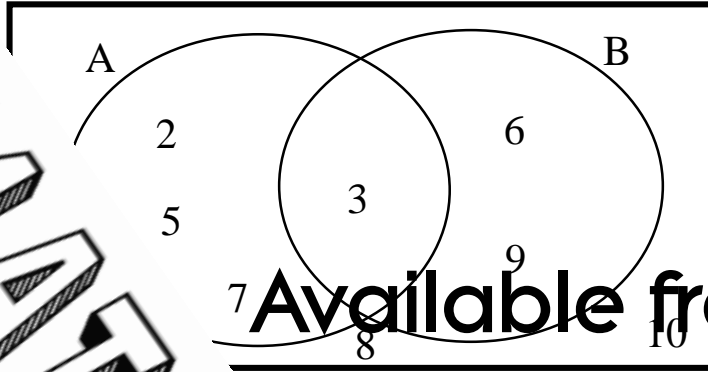
- 25 of the members were boys
- 10 of the girls have a pet
- 13 of the boys don't have a pet.

(a) Complete the frequency tree.



(2 marks)

5. Below is a Venn diagram showing some data.



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Write down the number of elements in each set, selecting:

- (i)  $A$  .....
- (ii)  $A \cup B$  .....
- (iii)  $B'$  .....

(3 marks)

6. Joseph is going to roll 2 fair five-sided dice.  
He multiplies the two scores together.  
He has started to complete the sample space.

(a) Complete the table

x	1	2	3	4	5
1					
2					
3					
4					
5					

(b) Calculate the probability of scoring a total which is even.

.....  
(marks)

Score =