

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

Write down the probability of selecting:

(i) Green

$$\frac{3}{14}$$

(ii) Red or green

$$\frac{4}{7}$$

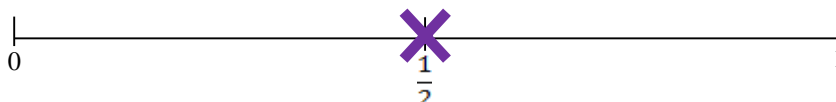
(iii) Not red

$$\frac{9}{14}$$

(3 marks)

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

The probability of rolling an **odd number** on a six sided dice.



(1 mark)

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

Red	Blue	Green	Orange
0.2	0.35	x	0.1

Work out the value of x.

$$x = \frac{0.35}{1}$$

(1 mark)

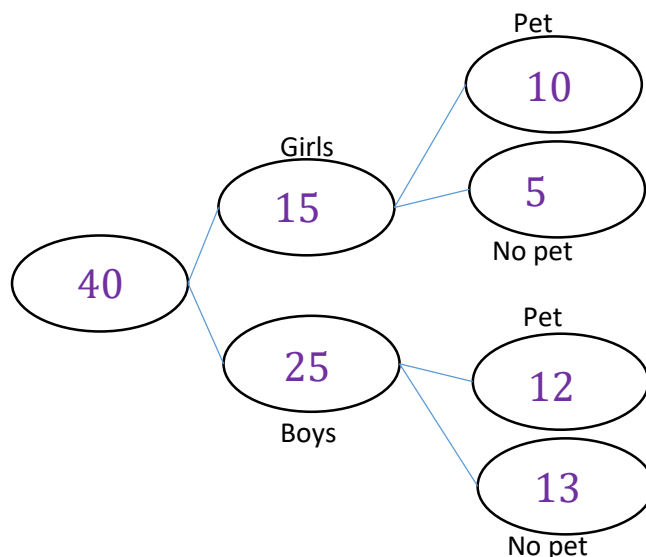
4. There are 40 members of a group.

25 of the members were boys

10 of the girls have a pet

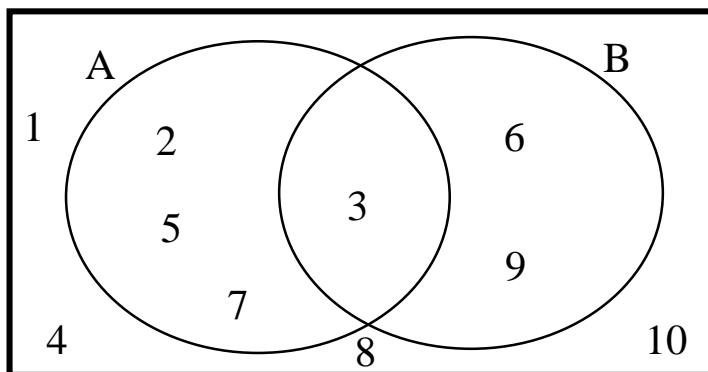
13 of the boys don't have a pet.

(a) Complete the frequency tree.



(2 marks)

5. Below is Venn diagram showing some data.



Write down the probability of selecting:

(i)  $A$

$\frac{2}{5}$   
.....

(ii)  $A \cup B$

$\frac{3}{5}$   
.....

(iii)  $B'$

$\frac{7}{10}$   
.....

(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 diagram.

(a) Complete the table

<b>x</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

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

$\frac{16}{25}$   
.....

(3 marks)

Score =