

1. In a bag of counters, there are 4 red, 2 blue and 1 green.

Write down the probability of selecting:

(i) Red

$\frac{4}{7}$

(ii) Pink

$\frac{0}{7}$

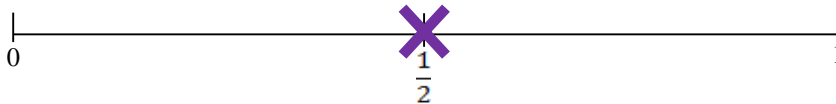
(iii) Not blue

$\frac{5}{7}$

(3 marks)

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

The probability of selecting a black card from a standard deck of cards.



(1 mark)

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

Red	Blue	Green	Orange
0.2	0.3	x	0.1

Work out the value of x .

$x = 0.4$

(1 mark)

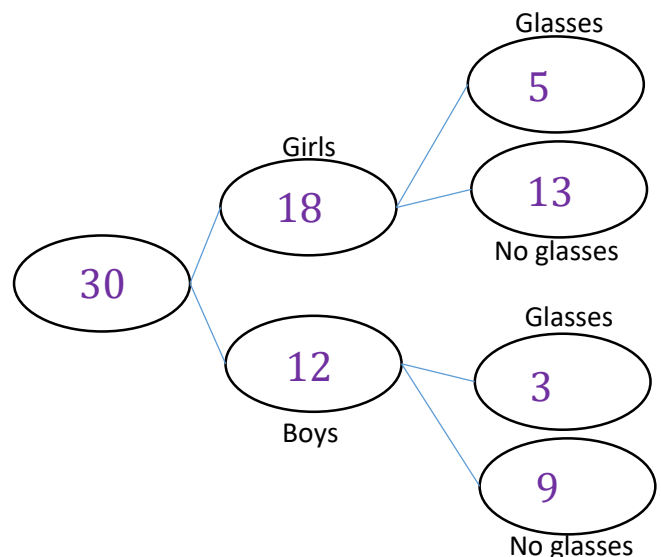
4. There are 30 students in a class.

12 of the students were boys

5 of the girls wear glasses

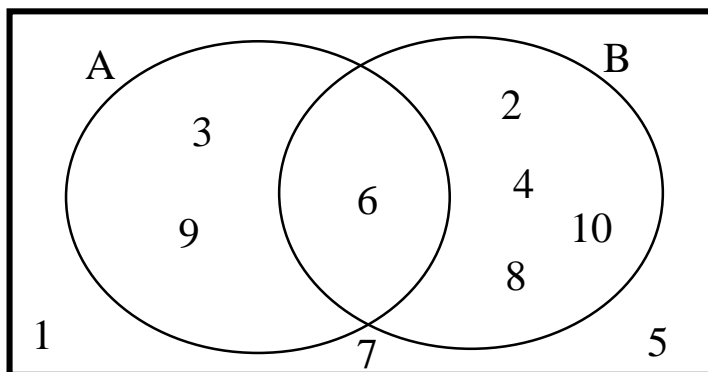
9 of the boys don't wear glasses.

(a) Complete the frequency tree.



(2 marks)

5. Below is Venn diagram showing some data.



Write down the probability of selecting:

(i) A

$\frac{3}{10}$
.....

(ii) $A \cap B$

$\frac{1}{10}$
.....

(iii) A'

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

(3 marks)

6. William is going to roll 2 fair six sided dice.

He will add the two scores together.

He has started to complete the sample space diagram.

(a) Complete the table

+	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 scoring a total of 10.

$\frac{1}{12}$
.....

(3 marks)

Score =