

1. In a bag of counters, there are 3 orange, 4 brown and 1 yellow.

Write down the probability of selecting:

(i) Orange

(ii) Red

(iii) Brown or yellow

$\frac{3}{8}$

.....

$\frac{0}{8}$

.....

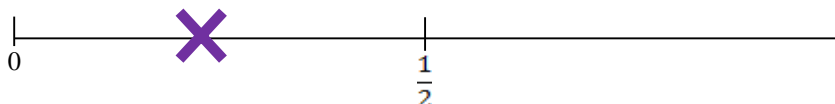
$\frac{5}{8}$

.....

(3 marks)

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

The probability of selecting a **diamond** 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
0.3	0.05	x	0.4

Work out the value of x .

$x = \dots\dots\dots 0.25$

(1 mark)

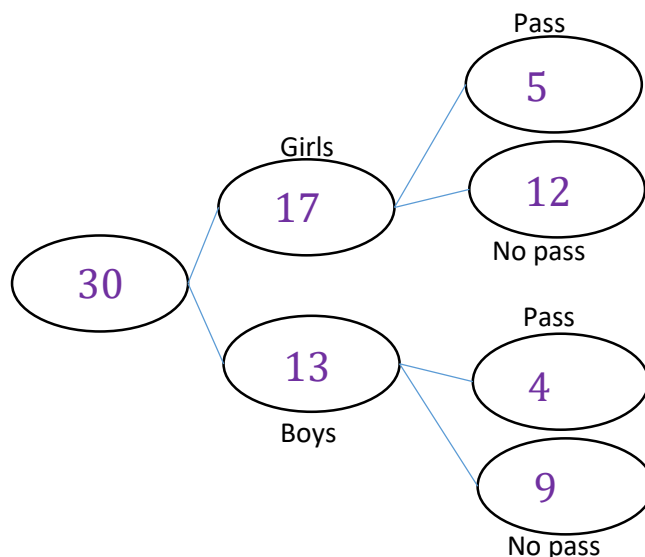
4. There are 30 students in a class.

13 of the students were boys

5 of the girls pass a test

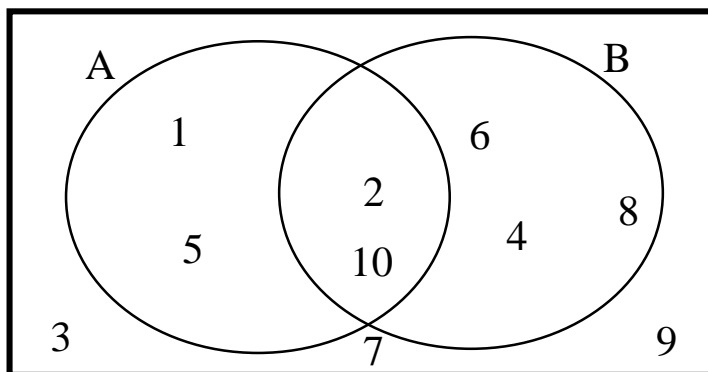
9 of the boys don't pass the test.

(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) $A \cap B$

$\frac{1}{5}$
.....

(iii) A'

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

(3 marks)

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

She multiplies the two scores together.

She has started to complete the sample space diagram.

(a) Complete the table

x	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

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

$\frac{1}{18}$
.....

(3 marks)

Score =