

1. There are 15 counters in a bag. 5 red, 4 yellow and the rest are blue.

Write down the probability of selecting:

(i) Blue .....

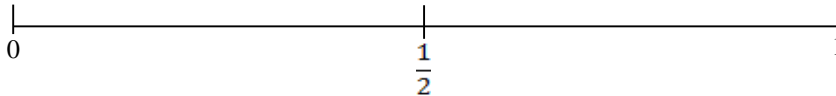
(ii) Red or blue .....

(iii) Not red .....

(3 marks)

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

The probability of rolling a number more than 4 on a dice.



(1 mark)

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

Red	Blue	Green	Orange
0.64	x	x	x

The probability of blue, green and orange is the same

Work out the value of  $x$ .

$x = \dots\dots\dots$

(1 mark)

4. There are 120 passengers on an airplane.

44 of the passengers were children.

40 of the females were adults.

(a) Draw a frequency tree.

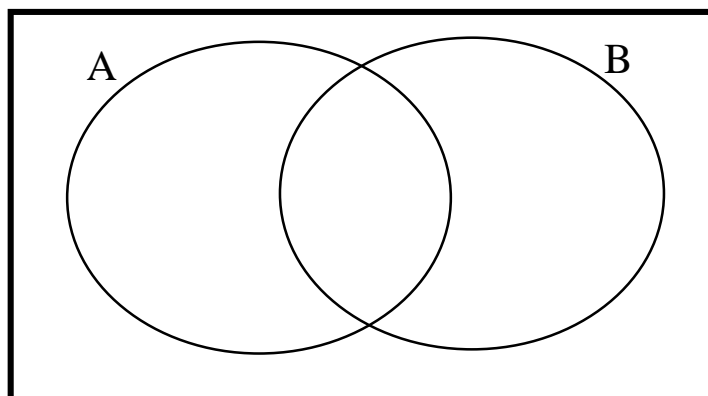
(4 marks)

5. Input this data into the Venn diagram below.

$\mathcal{E} = \{\text{Positive integers less than 15}\}$

$A = \{\text{Multiples of 3}\}$

$B = \{\text{Even numbers}\}$



Write down the probability of selecting:

(i)  $A \cap B$

.....

(ii)  $A \cup B$

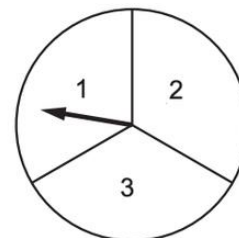
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(4 marks)

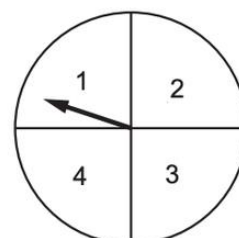
6. Benjamin is going to spin the two spinners.

He will then sum the scores together.

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



Spinner A



Spinner B

(b) Calculate the probability of getting a prime number total.

.....

(3 marks)

Score =