Foundation Homework 39 : Probability

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

(ii) Red or blue ..... $\frac{11}{15}$

(iii) Not red ..... $\frac{2}{3}$

(3 marks)

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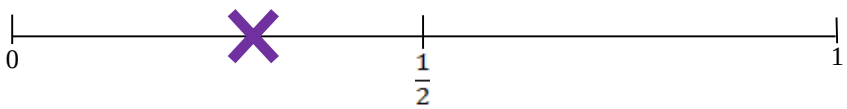
2. On the probability scale below, mark with an X

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



(1 mark)

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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.

$x =$ 0.12

(1 mark)

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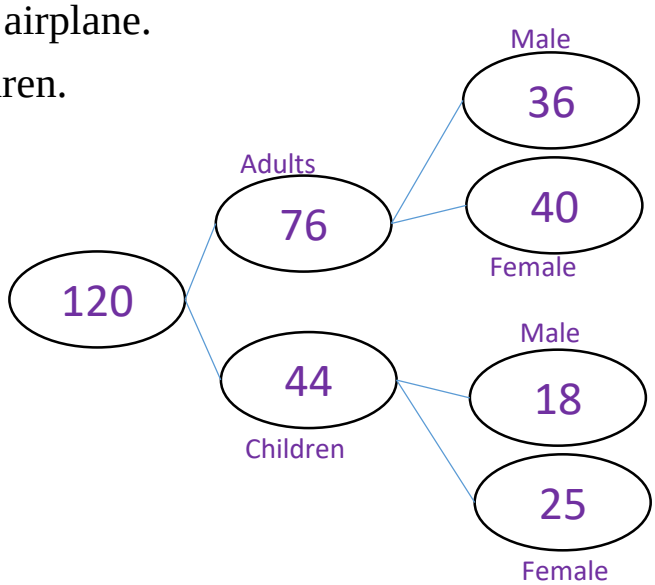
4. There are 120 passengers on an airplane.

44 of the passengers were children.
40 of the females were adults.

(a) Draw a frequency tree.



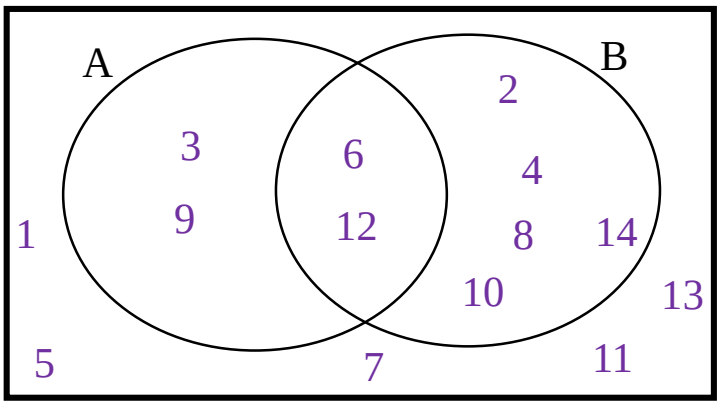
(4 marks)

5. Input this data into the Venn diagram below.

$\mathscr{E}$ = {Positive integers less than 15}

A = {Multiples of 3}

B = {Even numbers}



Write down the probability of selecting:

(i) $A \cap B$ ..... $\frac{1}{7}$

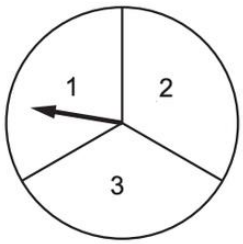
(ii) $A \cup B$ ..... $\frac{9}{14}$

(4 marks)

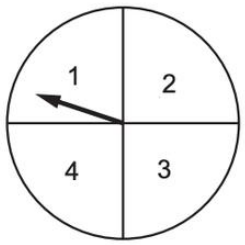
6. Benjamin is going to spin the two spinners.

He will then sum the scores together.

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



Spinner A



Spinner B

+	1	2	3	4
1	2	3	4	5
2	3	4	5	6
3	4	5	6	7

(b) Calculate the probability of getting a prime number total. ..... $\frac{1}{2}$

(3 marks)

Score =