

1. A bag contains 10 counters in a bag. 5 red, 4 yellow and the rest are blue.

Work out the probability of selecting:

- (i) Blue
  - (ii) Red or yellow
  - (iii) Not red
- Available from my TES account** (3 marks)

2. On the probability scale below, mark the probability of rolling a number less than 4 on a dice with an X.



(1 mark)

3. The table below shows the probability of selecting a counter from a bag.

Red	Blue	Green	Orange
0.64	$x$		

The probability of blue, green and orange is  $\frac{1}{4}$ . Work out the value of  $x$ .

(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.

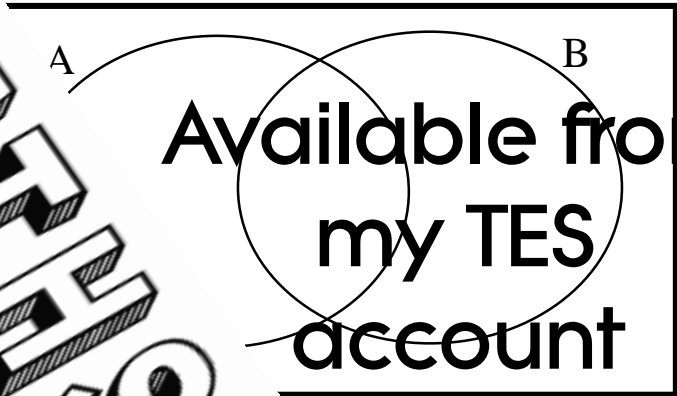
(4 marks)

5. Put the following data into the Venn diagram below.

{ prime integers less than 15 }

{ multiples of 3 }

{ even numbers }



Write down the probabilities of the following:

(i)  $A \cap B$

.....

(ii)  $A \cup B$

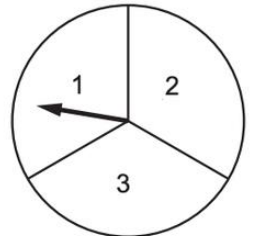
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(4 marks)

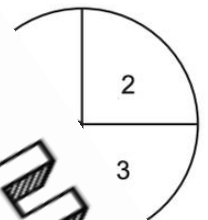
6. Benjamin is going to spin the spinner below.

He will then sum the scores together.

(a) Draw a sample space diagram.



Spinner A



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

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(3 marks)

Score =