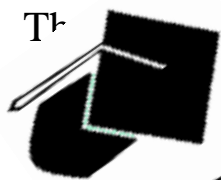


1. The table below shows the probabilities of choosing a counter from a bag. The ratio of yellow to black is in a ratio of 3:4



	Green	Red	Yellow
	0.4		

(2 marks)

2. Ross has two different motorways to get home from work. The probability of traffic on motorway A is 0.45. The probability of traffic on motorway B is 0.7.
- (a) Complete

Mot.

Motorway B



(2 marks)

- (b) Work out the probability he will only stop in

.....
(marks)

2. A game at a carnival requires you to roll 2 fair **five** sided dice. It costs £1 to play, and 50 people played yesterday. If you score a 10 you win £5, if you roll a 6 you get your money back. How much profit should the game make?

.....
(3 marks)

3. John asks 100 people which drinks they prefer.

All 100 preferred at least one of the drinks

40 preferred all three drinks,

20 preferred Pepsi and Coke, but not Sprite.

20 preferred Pepsi and Sprite

40 preferred Coke

1 preferred Sprite.

How many preferred Pepsi?

Available from
my TES
account

.....
(4 marks)

2. There are 5 Pink counters and 5 Blue counters in a bag.

One counter is taken out, not replaced.

A second counter is then taken.

(a) Draw a tree diagram to display

.....
(4 marks)

(b) Work out the probability that they are both different colours

.....
(4 marks)

Score =