**10a/Ma5 Probability Homework – Due Thursday 14th March 2013**

1. On a probability line, mark the following probabilities

I-------------------------------I--------------------------------I

1. 1
2. It will rain sometime next year in England. Use the letter R.
3. The sun will shine at midnight in London. Us the letter S.
4. A fair coin when tossed will land on Tails. Use the letter T.

(3 marks)

1. I have a box of toy cars. Each car is red, blue or white.

There are 3 red cars, 4 blue cars and 2 white cars.

I choose a car at random from the box.

Write down the probability that I choose a blue car.

(2 marks)

1. John has a bag of 20 sweets. 10 are red, 3 are black and the rest are white.

John chooses a sweet at random.

What is the probability that John chooses a

1. Red sweet
2. White sweet

(3 marks)

1. There are 20 coins in a bag.

7 of the coins are pound coins.

Helen is going to take a coin at random from the bag

Write down the probability that Helen

1. Takes a pound coin
2. Takes a coin that is not a pound coin

(2 marks)

1. Jo does a probability experiment. She throws a dice 600 times.

She scores a six 200 times.

Is the dice fair? You must explain your answer.

(2 marks)