## Tree Diagrams

1. The probability that Neil wins a game of chance is 0.4. He plays 2 games. Complete the tree diagram below.



 Anna and Bill are set to fail their maths exam because they are not good attenders at school. On a particular day: P(Anna attends school) = 0.6 P(Bill attends school) = 0.7 Complete the tree diagram below.



3. There are 6 red and 3 white discs in a bag. A disc is drawn, then replaced and another disc is drawn.



Find the probability that:

- a. Both discs are the same colour
- b. At least one of the discs was red
- 4. Melanie is a sixth form student who has 2 classes with homework due on a Tuesday.

The probability that she has her Maths homework is  $\frac{2}{5}$ 

The probability that she has her English homework is  $\frac{7}{10}$ 

Draw a probability tree diagram in the space below.

Maths English

**Probabilities** 

Use your diagram to find, P(No homework) and P(only one piece of homework)