Info. & Prob. – probability tree diagrams

question sheet IP-TD-01

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Illustrate each question with a 'tree diagram'.

- 1. A cloth bag contains 8 black marbles and 4 white marbles. If two marbles are removed from the bag one after the other, what is the probability that: (answers to 3 d.p.)
 - (a) the first is black and the second white
 - (b) both are coloured black
 - (c) both are coloured white n~GCSE Maths Tutor~ www.ac
- 2. Two cards are removed from a pack of cards, one after the other. What is the probability that: (answers to 3 d.p.)
 - (a) both cards are spades of a www.gcsemathstutor.con
 - (b) neither card is a spade
 - (c) only the second card is a spade
- 3. Two cards are removed from a pack of cards, one after the other. What is the probability that: (answers to 3 d.p.) ~ www.gcsemathstutor.com
 - (a) one of the cards is an ace
 - (b) two aces are obtained
 - (c) no aces are obtained m~GCSE Maths Tutor~ www
- 4. An earthenware jar contains $\pounds 1$ in 2p coins and $\pounds 10$ in 50p coins. If two coins are taken from the jar at random, what is the probability that the value of the two coins is: (answers to 3 d.p.)
 - (a) 52p (b) £1 (c) 4p
- 5. A child has a bag of coloured sweets consisting of 5 red sweets, 12 orange and 9 green.
 - If the child eats 2 of the sweets one after the other, what is the probability that: Note in this question, **3** tree diagrams are required. (answers to 3 d.p.)
 - (a) the first sweet eaten was orange and the second red
 - (b) no red sweets were eaten
 - (c) both the eaten sweets were green in colour

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4. (a) 0.207 (b) 0.079 (c) 0.507



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