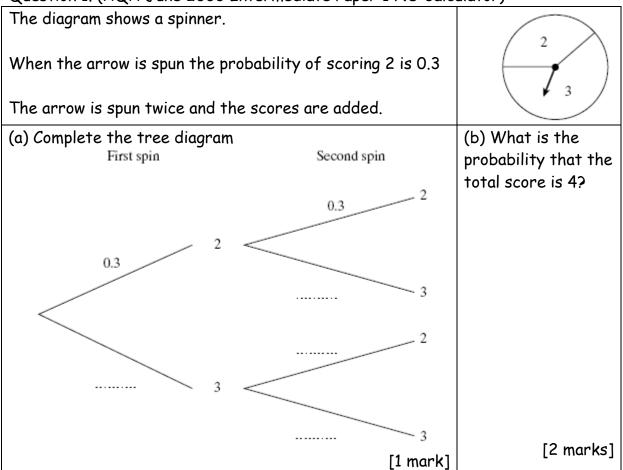
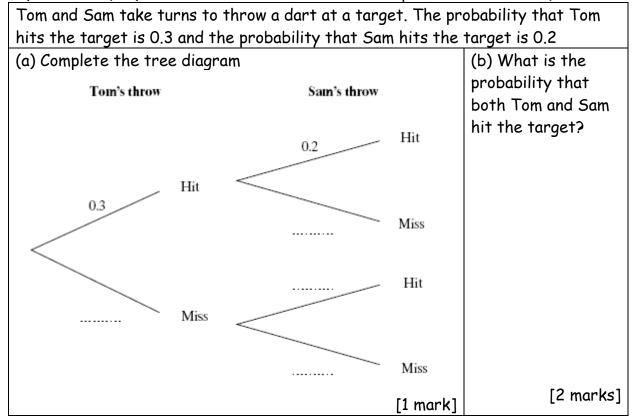
GCSE Exam Questions on Tree Diagrams

Question 1. (AQA June 2003 Intermediate Paper 1 NO Calculator)



Question 2. (AQA November 2003 Intermediate Paper 1 NO Calculator)



Question 3. (AQA June 2004 Intermediate Paper 2 Calculator OK)

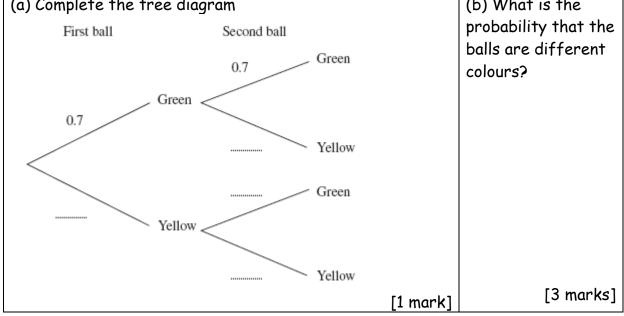
An ordinary six-sided dice is biased. (a) Work out the The probabilities of the dice landing on each of the value of p. numbers are 1 3 4 5 Number 2 6 $\frac{1}{6}$ $\frac{1}{6}$ <u>1</u> $\frac{1}{6}$ Probability [2 marks] The dice is thrown twice. (c) Calculate the (b) Complete the tree diagram probability that only one 4 is First throw Second throw thrown. $\frac{1}{6}$ Not 4 Not 4 Not 4 [3 marks] [2 marks]

Question 4. (AQA November 2007 Intermediate Paper 2 Calculator OK)

A bag contains 7 green balls and 3 yellow balls. A ball is taken from the bag at random and is then replaced. Another ball is then taken from the bag at random.

(a) Complete the tree diagram

(b) What is the probability that the

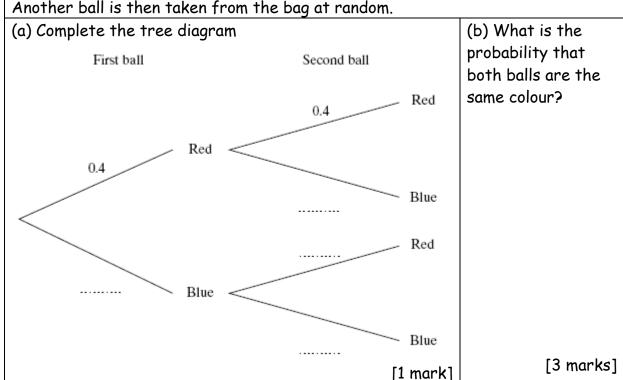


Question 5. (AQA November 2004 Intermediate Paper 2 Calculator OK)

A bag contains 4 red balls and 6 blue balls.

A ball is taken from the bag at random and is then replaced.

Another ball is then taken from the bag at random.



Question 6. (Edexcel iGCSE June 2008 Higher Paper 2 Calculator OK)

Each time Astrid takes a shot at goal, the probability that she will score is Astrid takes two shots at goal. (a) Complete the tree diagram (b) Calculate the First shot Second shot probability that Astrid scores at least one goal. Goa1 3 No Goal [3 marks] [3 marks]

GCSE Exam Questions on Tree Diagrams

Question 7. (Edexcel iGCSE June 2004 Higher Paper 2 Calculator OK)

Here is a fair 3-sided spinner. Its sides are labelled 1, 2 and 3 as shown in the diagram. (a) Aisha is going to spin the spinner twice. What is the probability that it will land on 1 both times? [2 marks] Harry is going to spin the spinner 3 times. (b) Complete the tree diagram First Second Third Outcome spin spin spin EEE Even Even Odd EEO Even Even Odd < Odd Even Even < Odd Odd Even Odd Odd [4 marks] (c) Work out the probability that the (d) Work out the probability that the spinner will land on an odd number 3 spinner will land on an even number times. exactly once.

[2 marks]

[3 marks]

GCSE Exam Questions on Tree Diagrams

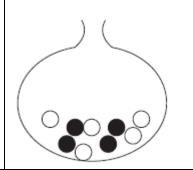
Question 8. (Edexcel iGCSE November 2004 Higher Paper 1 Calculator OK)

A bag contains 4 black discs and 5 white discs.

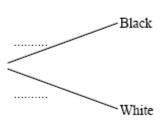
Ranjit takes a dis at random from the bag and notes its colour.

He then replaces the disc in the bag.

Ranjit takes another disc at random from the bag and notes its colour.



(b) Complete the tree diagram to show all the possibilities $\frac{\text{First disc}}{\text{Second disc}}$



[4 marks]

(b) Calculate the probability that Ranjit takes two discs of different colours.

[3 marks]