

STEP III, 2011 Q13 EC

13. This too was fairly unpopular, being attempted by about 10% of the candidates. Of these no more than a dozen got it largely correct, but there was only one totally correct solution as the detail for the non unique case frequently tripped even the better candidates. The mean score was only about a third of the marks available as most candidates got part (i) largely correct, barring some simplifying errors and not obtaining the non unique solution. Fewer candidates had the correct probabilities for part (ii) and so were unable to proceed, though a few were wrong merely by a constant which cancelled to give the correct ratio.



NextStepMaths.com

To view mark schemes, fully worked solutions and examiner's comments, and for more details about tutoring and other services offered, go to [NextStepMaths.com](https://www.NextStepMaths.com)