

- 6** Vehicles approaching a certain road junction from town *A* can either turn left, turn right or go straight on. Over time it has been noted that of the vehicles approaching this particular junction from town *A*, 55% turn left, 15% turn right and 30% go straight on. The direction a vehicle takes at the junction is independent of the direction any other vehicle takes at the junction.
- (i) Find the probability that, of the next three vehicles approaching the junction from town *A*, one goes straight on and the other two either both turn left or both turn right. [4]

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- This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.