

- A car park has spaces for 18 cars, arranged in a line. On one day there are 5 cars, of different makes, parked in randomly chosen positions and 13 empty spaces.

(i) Find the number of possible arrangements of the 5 cars in the car park. [2]

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(ii) Find the probability that the 5 cars are not all next to each other. [5]

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, evenly spaced across the entire page. These lines are designed to help children learn letter formation and alignment by providing a guide for the height and placement of their writing. The background is plain white, and there are no other markings or text present.

(iii) Find the number of selections Elizabeth can make that include cars of at least 2 different colours. [5]

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.