

- 7 (a) Find the number of different possible arrangements of the 9 letters in the word CELESTIAL. [1]

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- (b) Find the number of different arrangements of the 9 letters in the word CELESTIAL in which the first letter is C, the fifth letter is T and the last letter is E. [2]

- (c) Find the probability that a randomly chosen arrangement of the 9 letters in the word CELESTIAL does not have the two Es together. [4]

This image shows a single sheet of white paper with ten evenly spaced horizontal dotted lines, typical of primary-ruled notebook paper. The lines extend across the full width of the page, leaving a small margin at the top and bottom. There are no other markings, text, or illustrations on the page.

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