

- (a)** Find the number of different arrangements of the 9 letters in the word ACTIVATED.

[illegible]

- (b) Find the number of different arrangements of the 9 letters in the word ACTIVATED in which there are at least 5 letters between the two As. [3]

[illegible]

Five letters are selected at random from the 9 letters in the word ACTIVATED.

- (c) Find the probability that the selection does **not** contain more Ts than As. [5]

This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.