

A group of 12 people consists of 3 boys, 4 girls and 5 adults.

- (a) In how many ways can a team of 5 people be chosen from the group if exactly one adult is included? [2]

[illegible]

- (b) In how many ways can a team of 5 people be chosen from the group if the team includes at least 2 boys and at least 1 girl? [4]

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook 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.

The same group of 12 people stand in a line.

- (c) How many different arrangements are there in which the 3 boys stand together and an adult is at each end of the line? [4]

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