

- (a) Show that the probability of obtaining exactly one head is 0.225. [3]

[illegible]

- | x | 0 | 1 | 2 | 3 | 4 |
|------------|------|-------|---|---|-------|
| $P(X = x)$ | 0.05 | 0.225 | | | 0.075 |

[illegible]

(c) Given that $E(X) = 2.1$, find the value of $\text{Var}(X)$.

[2]

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing 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.