

- A game is played with 3 coins, A , B and C . Coins A and B are biased so that the probability of obtaining a head is 0.4 for coin A and 0.75 for coin B . Coin C is not biased. The 3 coins are thrown once.

(i) Draw up the probability distribution table for the number of heads obtained.

[5]

This image shows a single sheet 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.

(ii) Hence calculate the mean and variance of the number of heads obtained.

[3]