

The weights, in kg, of bags of rice produced by Anders have the distribution $N(2.02, 0.03^2)$.

- (a) Find the probability that a randomly chosen bag of rice produced by Anders weighs between 1.98 and 2.03 kg. [3]

[illegible]

The weights of bags of rice produced by Binders are normally distributed with mean 2.55kg and standard deviation σ kg. In a random sample of 5000 of these bags, 134 weighed more than 2.6kg.

(b) Find the value of σ .

[4]

This image shows a full page of white paper with horizontal dotted 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.