

1 A summary of 20 values of x gives

$$\Sigma(x-30) = 439, \quad \Sigma(x-30)^2 = 12\,405.$$

A summary of another 25 values of x gives

$$\Sigma(x-30) = 470, \quad \Sigma(x-30)^2 = 11346.$$

(a) Find the mean of all 45 values of x .

[2]

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

(b) Find the standard deviation of all 45 values of x .

[2]

[illegible]