AQA – Confidence intervals – AS Further Mathematics Statistics

1.

June/2020/Paper_2/No.4 Murni is investigating the annual salary of people from a particular town.	
She takes a random sample of 200 people from the town and records their annual salary.	
The mean annual salary is £28500 and the standard deviation is £5100	
Calculate a 97% confidence interval for the population mean of annual salaries for the people who live in the town, giving your values to the nearest pound. [3 marks]	
	

2. June/2019/Paper_2/No.3

Fiona is studying the heights of corn plants on a farm.

She measures the height, $x \, \text{cm}$, of a random sample of 200 corn plants on the farm.

The summarised results are as follows:

$$\sum x = 60255$$
 and $\sum (x - \overline{x})^2 = 995$

Calculate a 96% confidence interval for the population mean of heights of corn plants on the farm, giving your values to one decimal place.

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