Durham University
MATH1541 Statistics
Exercise Sheet 14

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1 Q1

$\bar{x} = \frac{184.7}{17} = 10.8647$
$s_x = \sqrt{\frac{2404.41 - 17 \times 10.8647}{16}} = 4.9849$
For t_{n-1}, ie. t_{16}, $\mu \in \{10.8647 \pm 2.120 \cdot \frac{4.9849}{\sqrt{17}}\}$
$\mu \in \{8.302, 13.428\}$
Assume underlying data is Normally (t???) distributed.

2 Q5