5. The table gives a summary of the data for Daily Mean Air Temperature for Perth in 2015 from the large data set Daily Maan Air Tomporature t (°C)

Dany Mean An Temperature t (C)	rrequency
8 ≤ <i>t</i> < 13	50
$13 \leqslant t < 14.5$	34
$14.5 \leqslant t < k$	52
$k \leqslant t < 20$	31
$20 \leqslant t < 25.5$	17

where k is a constant.

or similar to \overline{t}

Give a reason for your answer.

An estimate for the 5th percentile of these data is found to be 8.92°C

- - (a) Find an estimate for the 90% interpercentile range.

the bar representing $8 \le t < 13$

- (b) Find the value of k The estimated Daily Mean Air Temperature, \overline{t} °C, is calculated from these data. (c) With reference to the large data set, state whether the actual annual mean of

On a histogram of these data, the bar representing $14.5 \le t < k$ is 2.08 times taller than

Daily Mean Air Temperature for 2015 would be expected to be more than, less than,

(2)

(4)

(2)