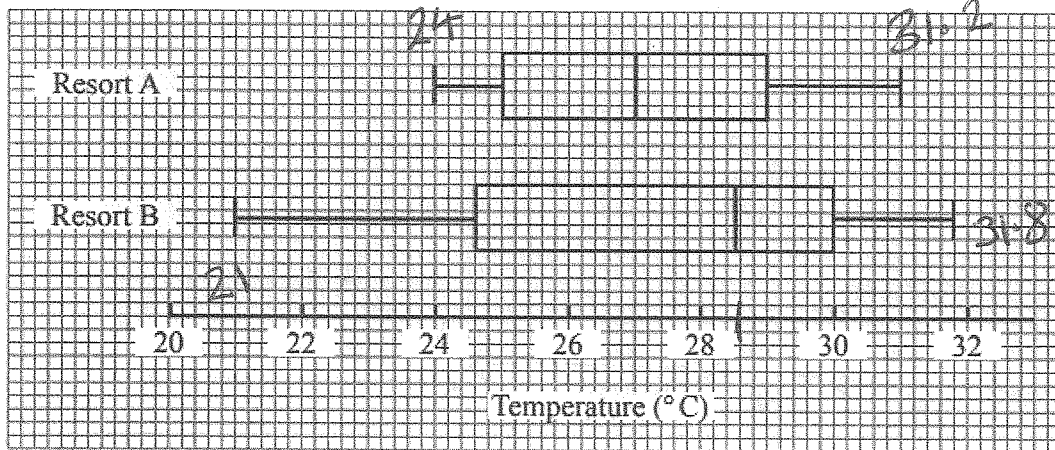


M4 = 24 days to go!

- 6 The average daily temperature during the month of July was recorded each day in two holiday resorts. The data is represented in the box plots below.



Jill likes to holiday where it is warm.

Using appropriate statistical vocabulary, explain why Jill may choose to go to

- (a) Resort A,

$$\begin{array}{l} \text{Range of A} = 31.2 - 24 \\ \quad \quad \quad = 7.2 \end{array} \quad \begin{array}{l} \text{Range of B} = 31.8 - 21 \\ \quad \quad \quad = 10.8 \end{array} \quad [1]$$

The temperature are most consistent in Resort A

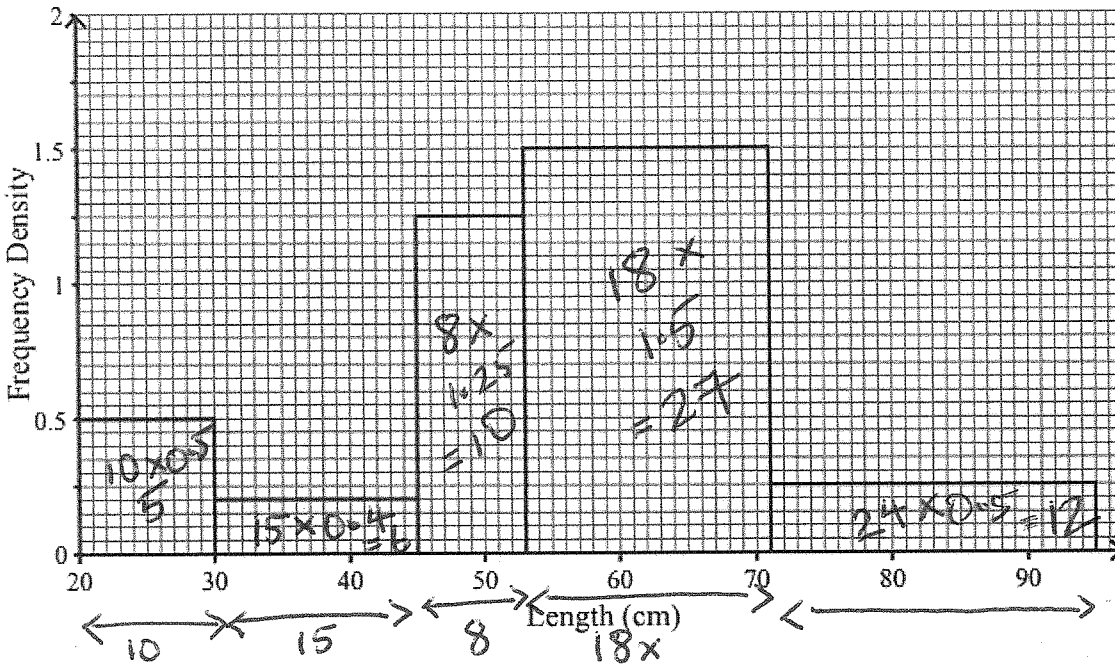
- (b) Resort B.

Highest Temperature in Resort B 31.8 as compared with 31.2. [1]

Resort B has 50% of days greater than 28.5

Resort A has 50% of days greater than 27

18 The histogram illustrates the lengths of a collection of twigs.



Find each area

Calculate an estimate for the mean length of the twigs.

Histograms. The area of the bar is the frequency

This makes a frequency table

Length	Frequency	fx
20 $\left\{ \begin{matrix} 25 \\ 30 \end{matrix} \right.$	5	5×25
30 $\left\{ \begin{matrix} 37\frac{1}{2} \\ 45 \end{matrix} \right.$	6	$6 \times 37\frac{1}{2}$
45 $\left\{ \begin{matrix} 49 \\ 53 \end{matrix} \right.$	10	10×49
53 $\left\{ \begin{matrix} 62 \\ 71 \end{matrix} \right.$	27	27×62
71 $\left\{ \begin{matrix} 83 \\ 95 \end{matrix} \right.$	12	12×83
	<u>60</u>	<u>3510</u>

Answer 58.5 cm [4]

get mid-point

$$\text{Mean} = \frac{3510}{60} = 58.5$$