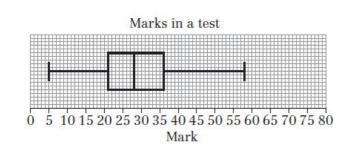
Representations of data 3B



- **2 a** Upper quartile is 47 marks Lower quartile is 32 marks
 - **b** 38 marks

1

- **c** IQR = 47 32 = 15 marks
- **d** Range = 76 12 = 64 marks
- **3 a** Male turtles have a higher median mass.

Males have a bigger range (or IQR).

- **b** It is more likely to be a female. Very few male turtles weigh as little as this, but roughly threequarters of the female turtles weigh even less.
- c 500 g despite this data point being an outlier.

4 a
$$Q_1: \frac{25}{4} = 6.25$$
, so we pick the 7th term: 22
 $Q_2: \frac{25+1}{2} = 13$, so we pick the 13th term: 26
 $Q_3: \frac{3}{4} \times 25 = 18.75$, so we pick the 19th term: 30

b IQR = 30 - 22 = 8Outliers are values less than $22 - 1.5 \times 8 = 10$ and values greater than $30 + 1.5 \times 8 = 42$. 46 and 78 are both greater than 42, so 46 and 78 are both outliers.

с

Maximum daily gust in Camborne, September 1987

