

## Stem and Leaf Diagrams

### Workout

#### Question 1

(a)

$$\begin{array}{l|l} 3 & 5 \ 8 \ 9 \\ 4 & 1 \ 4 \ 5 \ 8 \\ 5 & 0 \ 3 \ 5 \end{array}$$

Key: 4|1 means 41

(b)

$$\begin{array}{l|l} 0 & 5 \ 9 \ 9 \\ 1 & 1 \ 5 \ 8 \\ 2 & 4 \ 4 \ 8 \ 9 \\ 3 & 2 \ 3 \ 8 \\ 4 & 0 \ 2 \end{array}$$

Key 2|4 means 24

(c)

$$\begin{array}{l|l} 13 & 5 \ 9 \\ 14 & 0 \ 0 \ 2 \ 4 \ 4 \ 5 \ 8 \ 9 \\ 15 & 3 \ 8 \\ 16 & 0 \end{array}$$

Key 13|5 means 135

(d)

$$\begin{array}{l|l} 1 & 9 \\ 2 & 2 \ 8 \\ 3 & 1 \ 4 \ 7 \ 9 \\ 4 & 5 \ 8 \\ 5 & 1 \end{array}$$

Key 5|1 means 5.1kg

#### Question 2

- (a) 12
- (b) 14
- (c) 44
- (d) 3
- (e) 7

#### Question 3

- (a) 19
- (b) 9cm
- (c) 53cm
- (d) 3
- (e) 5

(f)  $\frac{7}{19}$

Question 4

(a)

2		7
3		5 7 8 8
4		1 2 3 8 9
5		0

Key 2|7 means 27 seconds

- (b) 41 seconds
- (c) 23 seconds
- (d) 5

Question 5

- (a) 57 minutes
- (b) 57 minutes
- (c) 44 minutes
- (d)  $\frac{4}{15}$

**Apply**

Question 1

- (a) 0.4kg
- (b) 0.75kg
- (c) 2.8kg
- (d) Yes – total is 11.6kg

Question 2

- (a) 146.5cm
- (b) 33cm
- (c)  $\frac{3}{14}$

Question 3

- (a) 11
- (b) 11
- (c) 47
- (d) 33
- (e) 26
- (f) 33
- (g) The boys did better on average (median=33) than the girls (median=26).  
The girls' marks (range=42) were more spread out than the boys (range=33)

Question 4

(a) 29 seconds

(b) 16 seconds

(c)

The range will decrease

The range will stay the same

The range will increase

(d)

The median will decrease

The median will stay the same

The median will increase

Question 5

Amelia missed out 28 and has not included a key