

Master Maths 9 Worksheet 86

Stemplots

86

Name: _____

1. For the following data:

- (a) construct a non-ordered stemplot
 (b) construct an ordered stemplot

15, 25, 23, 19, 34, 27, 30, 26, 18, 21, 42, 36, 41

- (a) non-ordered stemplot (b) ordered stemplot

Stem	Leaf	Stem	Leaf
1		1	
2		2	
3		3	
4		4	

2. The people in a restaurant were asked their ages. These ages are listed below.

27, 34, 21, 33, 45, 26, 30, 20, 40, 49, 18, 19, 46, 51, 42, 37, 53, 41, 33, 29, 38, 20, 50, 27, 39, 22

- (a) Construct a non-ordered stem plot

- (b) Construct an ordered stemplot.

Stem	Leaf

- (c) What was the age of the oldest person in the restaurant?
- (d) What is the age of the youngest person in the restaurant?

- (e) What is the range of ages?
- (f) How many people were in the restaurant?
- (g) What is the mean age? (one decimal place)
- (h) What is the median age?

3. The losing and winning scores for 12 netball games are shown below.

Losing scores: 23, 29, 38, 18, 42, 36, 20, 45, 36, 40, 22, 19

Winning scores: 58, 47, 63, 51, 49, 68, 39, 51, 46, 60, 41, 33

- (a) Construct an ordered back-to-back stemplot for this data.

Leaf	Stem	Leaf

- (b) What is the mean losing score? (one decimal place)
- (c) What is the mean winning score? (one decimal place)
- (d) What is the median losing score?
- (e) What is the median winning score?
- (f) Is it possible to calculate, from the stemplot, the mean winning margin? (Give reason)
