Stem and leaf diagrams

Grade 3 | Foundation | 5 questions, 20 marks

GCSE Statistics topic practice

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 The stem and leaf diagram shows the time, in minutes, that each of 11 customers waited at a garage.

Key: 1 | 2 means 12 minutes

a. How many customers waited for less than 10 minutes? (1)

b. Write down the longest time a customer waited. (1)

c. Work out the range of the times. (1)

0	5 8 9
1	2 4 4 7
2	0 3 6
3	1

(3 marks)

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2 Here are the marks of 15 students in a spelling test.

23	31	18	27	35	12	42	29
40	33	27	16	38	21	34	

a. Complete the ordered stem and leaf diagram for these marks. Include a key. (3)

b. Write down the mode of the marks. (1)

1	
2	
3	
4	

(4 marks)

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3 The stem and leaf diagram shows the ages, in years, of the members of a walking club.

2	4 7 9
3	1 5 5 8
4	0 2 6 6 6 9
5	3 7

Key: 2 | 4 means 24 years

a. How many members does the club have? (1)

b. Write down the mode. (1)

c. Find the median age. (1)

d. Work out the range of the ages. (1)

(4 marks)

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4 Hassan measures the heights of 16 seedlings. The stem and leaf diagram shows his results.

Key: 3 | 2 means 3.2 cm

a. Find the median height. (2)

b. Seedlings taller than 5 cm are ready to be planted outside.
Work out the percentage of the seedlings that are ready. (2)

3	2 6 8 9
4	1 3 5 5 7 9 9
5	0 2 7
6	1 3

(4 marks)

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5 The stem and leaf diagram shows the number of text messages sent by each of 11 students in one week. The largest value has a leaf missing. The range of the numbers of messages is 36

Key: 2 | 3 means 23 messages

a. Work out the missing value and complete the diagram. (2)

b. Find the median. (1)

c. Sam says, "More than half of the students sent over 40 messages."
Is Sam correct? Show how you decide. (2)

2	3 7
3	0 4 8 8
4	1 5 6
5	2

(5 marks)

End of questions | Total 20 marks

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