2.16 Stem and Leaf: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The stem and leaf diagram shows the heights, in cm, of 8 plants.

2	**1 4**
3	3 3 4 8
4	3 9

Key: 2 | 3 means 23

How many plants are taller than 29 cm? What fraction of all the plants is this? Give the fraction in its simplest form.

(Total for Question 1 is 3 marks)

2 The stem and leaf diagram shows the times, in seconds, taken by 9 runners.

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

Key: 2 | 3 means 23

Work out the mean. Give your answer correct to 1 decimal place.

(Total for Question 2 is 2 marks)

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3 The stem and leaf diagram shows the ages of visitors to a small museum.

Stem	Leaf
0	2 5 8
1	1 4
2	0 3

Write down the smallest age.

(Total for Question 3 is 1 mark)

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4 A teacher recorded the number of emails she received each day for one working week.

Stem	Leaf
2	3 5 9
3	2 4

Key: 3 | 2 means 32 emails

State how many days had more than 30 emails.

(Total for Question 4 is 1 mark)

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5 The stem and leaf diagram shows travel times (minutes) for a sample of journeys.

Stem	Leaf
9	5 7 8
10	1 4
11	0 2

Work out the range of the travel times.

(Total for Question 5 is 2 marks)

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Mark scheme · 2.16 Stem and Leaf: 10-minute Pack

Question 1

6 cao	**B1**
6/8	**M1**
3/4 cao	**A1**

Answer: 6 plants, 3/4

Question 2

sum of values divided by number of values	**M1**
mean to 1 decimal place	**A1**

Answer: 26.4

Question 3

2 cao	**B1**

Answer: 2

Question 4

2 cao	**B1**

Answer: 2

Question 5

identify smallest and largest values (95 and 112) oe	**M1**
17 minutes cao	**A1**

Answer: 17 minutes

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