Past Papers Worksheet P2 Stem and Leaf Diagram IGCSE Mathematics 0580



1. These are the masses, in kg, of 12 parcels.

0.3 0.4 1.2 0.8 1.1 2.1 1.7 1.8 1.2 2.3 0.7 1.1

Complete the stem-and-leaf diagram for the 12 parcels. [2]

0	3 4
1	
2	

Key: 0 | 3 represents 0.3 kg

(b) Find the median. [1]

0580/23/M/J/22 Q4)

2. The number of passengers on a bus is recorded each day for 14 days.

15 18 22 17 35 38 24
19 19 24 25 31 36 29

(a) Complete the stem-and-leaf diagram. [2]

1	
2	
3	

Key: 1| 5 represents 15 passengers

(b) Find the median. [1]

0580/22/F/M/21 Q3)

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3. The stem-and-leaf diagram shows the number of hours that each of 16 students studied last week. Find

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

Key: 1 | 2 represents 12 hours

(a) the median, [1]
(b) the mode, [1]
(c) the range. [1]

0580/21/M/J/21 Q3)

4. Emma has 15 mathematics questions to complete.
The stem-and-leaf diagram shows the time, in minutes, it takes her to complete each question

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

Key: 2 | 0 = 20 minutes

Complete the table. [3]

Mode	..... min
Median	..... min
Range	..... min

0580/22/M/J/21 Q3)

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5. The number of items that each of 22 people buy in a supermarket is shown in the stem-and-leaf diagram

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

Key: 1 | 1 represents 11 items

(a) Find the mode. [1]
(b) Find the median. [1]
0580/21/O/N/21 Q4)

6. The stem-and-leaf diagram shows the age, in years, of each of 15 women.

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

Key: 3 | 1 represents 31 years

Complete these statements.
The modal age is .....
The median age is .....
The percentage of women that are older than 51 years is ..... %. [3]
0580/22/O/N/21 Q2)

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7. The number of people swimming in a pool is recorded each day for 12 days.
   24 28 13 38 15 26
   45 21 48 36 18 38
   (a) Complete the stem-and-leaf diagram. [2]

1	
2	
3	
4	

Key: 1|3 represents 13 swimmers

(b) Find the median number of swimmers. [1]
0580/22/F/M/20 Q2)

8. A pet adoption center has various breeds of dogs for adoption. Their weights in pounds are given below:

Female	58	62	75	41	65	65	70	72	59
Male	69	51	70	48	65	55	65	68	49

(a) Make a back-to-back stem-and-leaf plot of the given data and answer the following

Leaf (Male)	Stem	Leaf (Female)

Key: 4|8 = _____

(b) How many dogs weigh between 50 to 60 pounds?
(c) What is the mean weight of female dogs?
(d) What is the median weight of male dogs?

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9. (a) The list shows 15 midday temperatures, in degrees Celsius, in Suntown.

17 21 21 18 23 22 25 19
21 17 19 18 21 24 23

(i) Complete the stem-and-leaf diagram to show this information. [2]

1	7
2	

Key: 1|7 represents 17 °C

(ii) Find the median. [1]

(iii) Find the upper quartile. [1]

(iv) Rahul draws a pie chart to show this information.

Calculate the sector angle for the number of days the temperature is 18°C. [2]

0580/41/M/J/22 Q1(a)

Answers

Q1)(a)

0	(3 4) 7 8
1	1 1 2 2 7 8
2	1 3

(b) 1.15

Q2) (a)

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

Q3) (a) 28 (b)21 (c)35

Q4) Mode 16 , Median 11, Range 17

Q5) 22 and 30

Q6) 41 , 43 and 20

Q7)(a)

1	3 5 8
2	1 4 6 8
3	6 8 8
4	5 8

(b)27

Q8)

Leaf (Male)	Stem	Leaf (Female)
9 8	4	1
5 1	5	8 9
9 8 5 5	6	2 5 5
0	7	0 2 5

Key : 4|8 = 48 pounds

Q9) (a)(i) (a)(ii)21 (a)(iii)23 (a)(iv)48

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

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