Stem and Leaf and Two-Way Tables

GCSE Mathematics • **Foundation Tier** • Grades 2–4 • Non-calculator

Name: _____ Class: _____ Total: _____ / 47

Show all your working. Marks are given for correct method as well as the final answer.

1. The stem and leaf shows test marks. Write down the lowest mark. **[1 mark]**

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

Key: 1 | 2 means 12 marks

Answer: _____

2. Using the same diagram, write down the highest mark. **[1 mark]**

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

Key: 1 | 2 means 12 marks

Answer: _____

3. Using the same diagram, work out the range. **[2 marks]**

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

Key: 1 | 2 means 12 marks

Answer: _____

4. Using the same diagram, write down the mode. **[2 marks]**

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

Key: 1 | 2 means 12 marks

Answer: _____

5. Using the same diagram, work out how many took the test. **[1 mark]**

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

Key: 1 | 2 means 12 marks

Answer: _____

6. Using the same diagram, work out the median. **[3 marks]**

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

Key: 1 | 2 means 12 marks

Answer: _____

7. Using the same diagram, work out how many scored more than 35. **[2 marks]**

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

Key: 1 | 2 means 12 marks

Answer: _____

8. Using the same diagram, work out the fraction who scored less than 20. **[2 marks]**

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

Key: 1 | 2 means 12 marks

Answer: _____

9. The stem and leaf shows race times in seconds. Write down the mode. **[2 marks]**

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

Key: 2 | 4 means 24 seconds

Answer: _____

10. Using the race times, work out the median. **[3 marks]**

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

Key: 2 | 4 means 24 seconds

Answer: _____

11. Using the race times, work out the range. **[2 marks]**

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

Key: 2 | 4 means 24 seconds

Answer: _____

12. Using the race times, work out how many ran in under 40 seconds. **[2 marks]**

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

Key: 2 | 4 means 24 seconds

Answer: _____

13. Complete the two-way table, then write down how many Year 10 pupils take the bus. **[3 marks]**

	Walk	**Bus**	**Total**
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

14. Using the same table, work out how many Year 11 pupils walk. **[2 marks]**

	Walk	**Bus**	**Total**
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

15. Using the same table, work out how many Year 11 pupils there are. **[2 marks]**

	Walk	**Bus**	**Total**
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

16. Using the same table, work out how many pupils take the bus altogether. **[2 marks]**

	Walk	Bus	Total
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

17. Using the same table, work out the probability that a pupil chosen at random walks. **[2 marks]**

	Walk	Bus	Total
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

18. Using the same table, work out the percentage of Year 10 who walk, to 1 d.p. **[3 marks]**

	Walk	Bus	Total
Year 10	14		32
Year 11		11	
Total	31		60

Answer: _____

19. The stem and leaf below shows the ages of a club's members.

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

Key: 1 | 4 means 14 years

(a) Work out how many members there are. **[1 mark]**

(b) Work out the median age. **[3 marks]**

Answer: _____

20. 80 people were asked whether they drive. 45 were men, and 28 of the men drive. 12 women do not drive.

(a) Work out how many women drive. **[3 marks]**

(b) Work out the probability a person chosen at random drives. **[3 marks]**

Answer: _____

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