

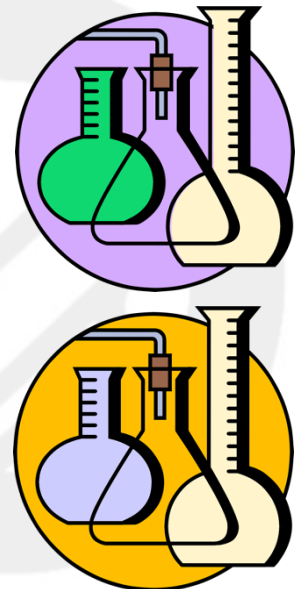
## Stem-and-Leaf Plots

### Science Test Scores

The scores for the Year 8 science test for Class 8A is shown below. Display this data in a stem-and-leaf plot. All test scores are written as percentages.

63	82	49	75	54	100	87	71	67	98
82	98	36	12	73	59	91	98	55	79

Stem	Leaf
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



**KEY**

6|5 = 65

### Questions

1. What fraction of scores were above 70%?
2. What score appears to be an outlier?
3. Find the median of the data.



4. Find the mode of the data.	
5. Find the mean of the data.	
6. How many students scored above average?	
7. Determine the minimum value, maximum value and range.	

### Two-way stem-and-leaf plots

The data below is from class 8D. Construct a back-to-back stem-and-leaf plot to compare the test scores from both classes.

49	65	60	90	65	95	59	77	71	93
77	65	40	64	61	85	69	65	90	65

Class 8A	Stem	Class 8D
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

### Questions

1. Which class performed better overall?	
2. What are the scores of the students are in the highest 25% of both classes?	

## Stem-and-Leaf Plots

### The Age of Parents

Students in Class 8B have recorded down the ages of both their parents in the table below. Display this data in a stem-and-leaf plot.

36	35	31	32	38	40	38	30	39	32
39	42	41	30	35	37	33	31	35	44
32	38	33	36	37	41	42	40	36	39
41	40	32	36	36	35	3	30	29	28

Stem	Leaf
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**KEY**

6|5 = 65

### Questions

1. Find the average age of the parents.  
Round your answer to the nearest whole number.

2. How many parents are above the average age?



3. If students in class 8B are all twelve, how many parents were 21 years old when their child was born?	
4. Find the mode of the data.	
5. Find the median of the data.	

## Two-way stem-and-leaf plots

The data from class 8B has been separated according to gender. Construct a back-to-back stem-and-leaf plot to compare the ages of mothers and fathers of students in 8B.

Females

33	35	31	32	30	36	36	29	36	38
35	37	28	42	40	41	39	32	39	36

Males

40	31	37	30	39	35	33	36	32	38
36	38	41	44	32	30	41	40	42	35

Females	Stem	Males
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

## Questions

1. On average, are female or male parents of Class 8B students older?	
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