Name: .... Class: ....
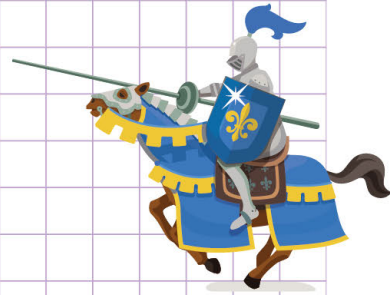
Interpret stem-and-leaf plots

1. Mr. Valley tracked the test scores of his student out of a 100 and recorded it on the stem-and-leaf plot. Study the plot and answer the questions below.

Test scores out of 100	
Stem	Leaf
5	0 0 2 9 9
6	1 3 3 5 6
7	2 4 7 6 8 2
8	2 4 5
9	0 1 2 8

(a) How many students took the test?

(b) How many students got at least 59 but less than 85 scores out of a 100?

2. The stem-and-leaf plot below shows the time taken in minutes for a group of soldiers to reach their destination.

Minutes taken by soldiers	
Stem	Leaf
1	2 3 5 7 9
2	0 0 5 9 9 9
3	1 2
4	0 1 7
5	1 3 4
6	7 7 7 9

(a) How many groups of soldiers reached their destination in 29 minutes?

(b) How many groups of soldiers reached their desitination in greater than 30 minutes?

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

(a) How many students took the test?

We know that, in the stem-and-leaf plot, the stem shows the digit in the tens place and the leaf shows the digit in the ones place.

So to find the number of students that took the test, let's count the number of leaves in the stem-and-leaf plot.

You see that there are 23 leaves

So, 23 students took the test.

(b) How many students got at least 59 but less than 85 scores out of a 100?

Let's first of all find the row with stem 5. count the leaves greater than or equal to 9.

You see that, there are 2 leaves equal to nine.

Then let's count all the leaves in the rows with stems 6 and 7.

You, see that, there are 11 leaves.

Now, let's count all the leaves less than 5 in the row with stem 8

You see that there 2 leaves

Finally, let's add up all the leaves we counted.

2 + 11 + 2 = 15 leaves.

So, we counted 15 leaves.

Therefore, 15 students got atleast 59 but less than 85 scores out of a 100.

2. The stem-and-leaf plot below shows the time taken in minutes for a group of soldiers to reach their destination.

Minutes taken by soldiers	
Stem	Leaf
1	2 3 5 7 9
2	0 0 5 9 9 9
3	1 2
4	0 1 7
5	1 3 4
6	7 7 7 9

(a) How many groups of soldiers reached their destination in 29 minutes?

You see that 3 groups of soldiers reached their destinations in 29 minutes.

(b) How many groups of soldiers reached their desitination in greater than 30 minutes?

12 groups of soldiers reached their destination in greater than 30 minutes.