Unit 9, Lesson 4

Measure and Plot

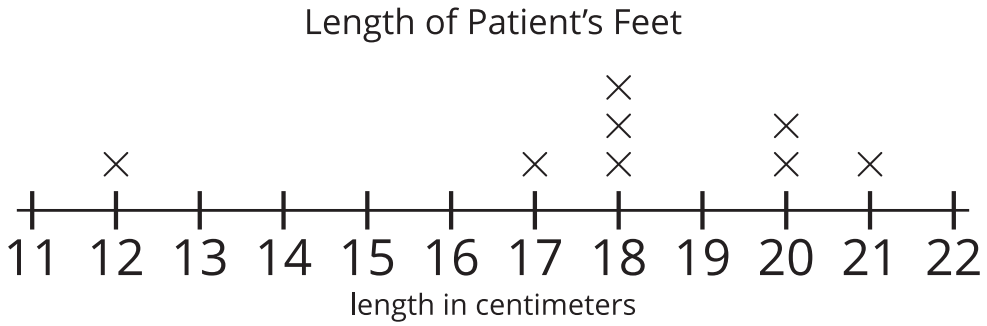
Let's create line plots and add and subtract measurements of length.

Warm-up

Notice and Wonder: Line Plots

What do you notice? What do you wonder?

patient	foot length in centimeters
A	12
B	18
C	20
D	18
E	18
F	20
G	17
H	21



Activity 1

May I Sharpen My Pencil?

group	length of pencils in centimeters				total length
A	8	13	12	7	
B	9	15	7	10	
C	12	13	8	6	
D	9	9	11	13	
E					

1. Measure the length of your pencil. _____ cm
2. Write the lengths of your group's pencils in the last row of the table.
3. Find the total length of each group's pencils.

Activity 2

A Plot Twist

1. Use the pencil measurements to create a line plot.



2. What is the most common pencil length? _____
3. What is the shortest pencil length? _____
4. How many pencils are longer than 10 cm? _____
5. What is the difference between the longest pencil and the shortest pencil? Write an equation to represent the difference.

6. What is the difference between the shortest pencil and the length of an unsharpened pencil? Write an equation to represent the difference.