

Heights of Students in Our Class

NAME _____

Find the height of any ten students in your classroom. Record the heights in order from largest to smallest. Include your own height so that eleven heights are recorded.

ORDER	NAME	HEIGHT (CM)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

1. Using an x for each height, record your data on the number line at the end of the activity sheet.
2. Find the middle of the eleven heights recorded. In which place is it in the ordered sequence?

What is the height?

3. Find the third smallest and ninth smallest heights. What are they?
4. How are the third and ninth smallest heights related to the middle height?
5. Draw vertical line segments through the third and ninth heights, and then connect the ends of the line segments to form a box. Draw a vertical line segment in the box to show the middle height. You have created a box plot.
6. Draw line segments from the middle of the edges of the box (3rd and 9th heights) to the smallest and largest heights. The line segments represent the *whiskers* in a box-and-whisker plot.

7. Is the middle height closer to that for the third-smallest or third tallest students? How do you know?
8. Which height – the largest or the smallest – is closer to the left end of the box? How do you know?
9. Why was it fairly easy to create a box-and-whisker plot with eleven people?

Height in Centimeters

0 15 30 45 60 75 90 105 120 135 150 165 180
