<u>Five Number Summary for Height</u>:

59 59 60 60 61 ‖ 62 62 63 63 64 ‖ 65 66 67 67 67 67 67 67 69 72
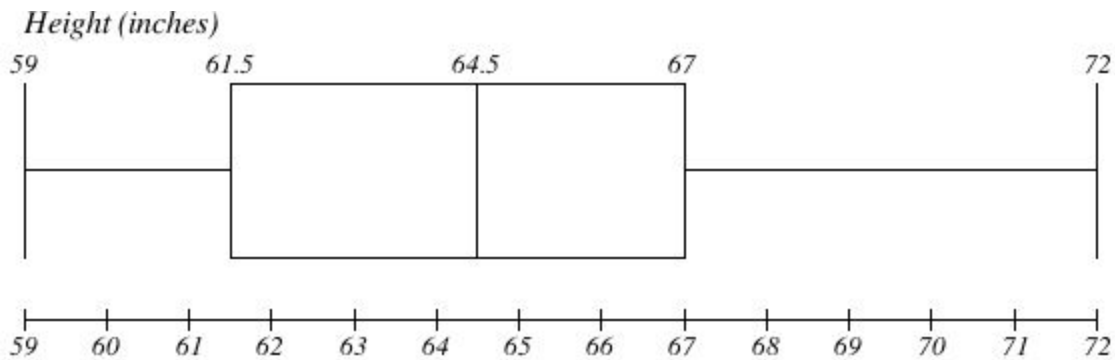
Min: 59
Q1: 61.5
Median: 64.5
Q3: 67
Max: 72

Height (inches)

From the IQR above, we can see that 50% of students in the sample are between 61.5 and 67 inches tall.

<u>Mean</u>:

$$\mu = \frac{59+59+60+60+61+62+62+63+63+64+65+66+67+67+67+67+67+67+69+72}{20}$$

$$\mu = \frac{1287}{20} = 64.35$$

So the average height in my sample is 64.35 inches. This is almost identical to the median height of

64.35 inches as found above.

<u>Standard Deviation</u>:

$\mu = 64.35$

$(64.35 - 59)^2 = 28.6225$

$(64.35 - 59)^2 = 28.6225$

$(64.35 - 60)^2 = 18.9225$ new $\mu = 12.3275$

$(64.35 - 60)^2 = 18.9225$

$(64.35 - 61)^2 = 11.2225$

$(64.35 - 62)^2 = 5.5225$

$(64.35 - 62)^2 = 5.5225$

$(64.35 - 63)^2 = 1.8225$

$(64.35 - 63)^2 = 1.8225$

$(64.35 - 64)^2 = 0.1225$

$(64.35 - 65)^2 = 0.4225$

$(64.35 - 66)^2 = 2.7225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 67)^2 = 7.0225$

$(64.35 - 69)^2 = 21.6225$

$(64.35 - 72)^2 = 58.5225$

$\sigma = \sqrt{12.3275} = 3.511054$