Name _____   Date _____

How Tall Are You?

1) You and your partner will measure each other to the nearest inch.

Your height _____ inches.

2) You will now use that measurement and find out how tall you are in different units. Set up a proportion for each.

a) How many centimeters tall are you?

   Proportion:

   Equation:

   Solution:

   I am _____ cm tall.

b) How many feet tall are you?

   Proportion:

   Equation:

   Solution:

   I am _____ ft tall.

c) How many yards tall are you?

   Proportion:

   Equation:

   Solution:

   I am _____ yards tall.

d) How many meters tall are you?

   Proportion:

   Equation:

   Solution:

   I am _____ meters tall.

e) How many miles tall are you?

   Proportion:

   Equation:
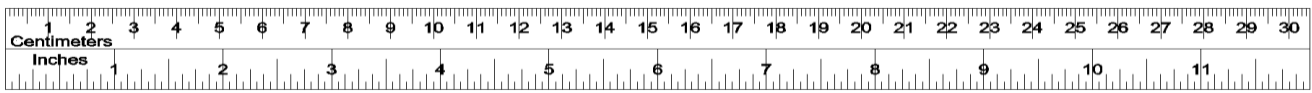
   Solution:

   I am _____ miles tall.

f) How many kilometers tall are you?

   Proportion:

   Equation:

   Solution:

   I am _____ km tall.

3) Let's graph our class data.

a) List the heights (in inches) of your classmate from least to greatest in the box below.

b) Find the mean, median, mode, and range of the data set.

Mean _____   Median _____   Mode _____   Range _____

Is there an outlier? _____

c) Create a histogram of your data set.   _____

Include a title and label each axes.
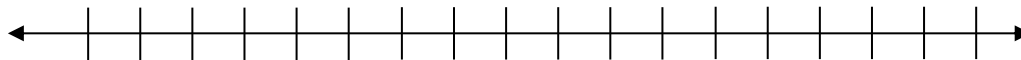
Intervals	Tally	Frequency

_____

d) Create a Box and Whisker Plot of your data.

Minimum _____   Q1 _____   Median _____   Q3 _____   Maximum _____   IQR _____

e) Write 3 conclusions you can make about the heights based on the Box and Whisker Plot.

_____

_____

_____