American Math 6th Grade HW 30;
Histograms; Mean Absolute Deviation; Box Plots; Dot Plots

**Use the data in the chart and the description
below to complete Exercises 1–2.**

The data set lists the heights of the Houston Rockets players during the
2011–2012 basketball season.

Players' Heights
81 80 79 72 72 78 82
80 80 76 87 65 79 82
80 79 81 71 77

1. Complete the frequency table.
   Use an interval of 5.

Players' Heights	
Heights (in.)	**Frequency**
65–69	

2. Complete the histogram.

Players' Heights

Use the above histogram or the set of data for Exercises 3 and 4.

3. Find the range, the median, and the mean of the players' heights.

   a. range   b. median   c. mode

   _____   _____   _____

4. Based on this data, what do you think is the average height of players
   in the National Basketball Association? Explain how you decided on
   your answer including which display of data you used.

   _____

   _____

   _____

Find the *mean absolute deviation (MAD)* for *Exercise 5.* Show your work.

5. The number of approved soy-based containers produced in 10 stamping
   runs of 240 containers: 225, 227, 227, 228, 230, 230,
   231, 238, 238, and 240

The high temperatures for 2 weeks are shown at the right. Use the data set for Exercises 6–11.

Show your work for each one.

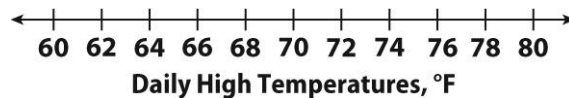| High Temperatures |
|---|
| 68 74 72 65 61 64 64 |
| 70 76 78 70 69 61 62 |

6. Order the data from least to greatest.

_____

7. Find the median.   _____

8. Find the lower quartile. _____

9. Find the upper quartile. _____

10. Make a box plot for the data.

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 ←─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼─→
   60 62 64 66 68 70 72 74 76 78 80
        Daily High Temperatures, °F
```

11. Make a dot plot for the data.

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 ←─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼─→
   60 62 64 66 68 70 72 74 76 78 80
        Daily High Temperatures, °F
```