Math 7 Period_____   Name_____
6.6.7 Homework Set   Date_____

1. The number of pockets in the clothes worn by four students to school today is
   4, 1, 3, 4.

   a. Perform the fair share process to find the mean number of pockets for
      these four students. Sketch the cubes representations for each step of the
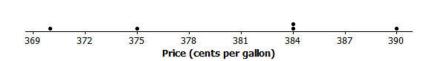   process.

   b. Find the total of the distances on each side of the mean to show the mean
      found in part (a) is correct.

2. The times (rounded to the nearest minute) it took each of six classmates to
   run a mile are 7, 9, 10 , 11, 11 and 12 minutes.

   a. Draw a dot plot representation for the mile times.

   b. What is the mean?

3. The prices per gallon of gasoline (in cents) at five stations across town on one day are shown in the following dot plot. The price for a sixth station is missing, but the mean price for all six stations was reported to be 380 cents per gallon. Use the balancing process to determine the price of a gallon of gasoline at the sixth station.

Dot Plot of Price (cents per gallon)


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       •           •              :        •              •
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369   372   375   378   381   384   387   390
          Price (cents per gallon)
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4. The number of phones (landline and cell) owned by the members of each of nine families is 3,5, 6, 6, 6, 6, 7, 7, 8.

   a. Find the mean number of phones owned by these nine families by using a calculator to add all the numbers and then divide the sum by the number of data points. **Show your work!**

   b. Draw a dot plot of the data, and verify your answer in part (a) by using the balancing process.