

## 7.4 – Measures of Central Tendency Worksheet

Mr. Martínez

**1)** Use technology to calculate the mean, median, and mode for the following data sets.

**a)** Marks on a set of tests {66, 65, 72, 78, 93, 70, 68, 64}

**b)** Monthly rent (\$) {625, 750, 800, 650, 725, 850, 625, 650, 625, 1250}

**c)** Survey responses (1 = never, 2 = sometimes, 3 = often, 4 = always)

{1, 2, 3, 4, 3, 3, 4, 3, 2, 3, 3, 2, 3, 2, 1, 2, 3, 4, 3, 3, 2, 3, 2, 3, 2, 3, 3}

**d)** Waiting time, in minutes, at a fast-food restaurant {5, 5.5, 6.5, 7, 7.5, 7, 7, 5, 6.5, 5, 5, 8.5, 0.5, 4.5, 7}

**e)** Points scored by a basketball player {12, 15, 8, 12, 15, 10, 3, 14, 15}

**f)** Daily sales totals (\$) {0, 0, 0, 17 000, 0, 0, 28 455, 0, 0, 41 590}

2) Hakim's Shoes reported the following sales results:

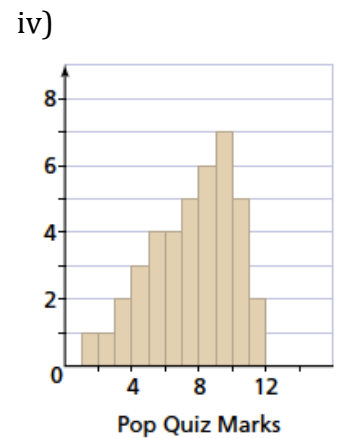
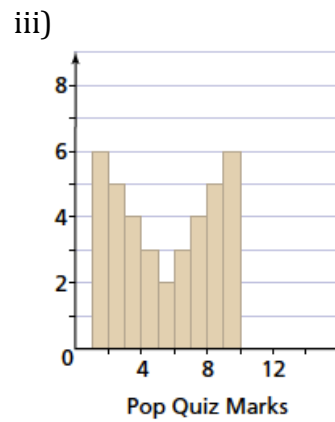
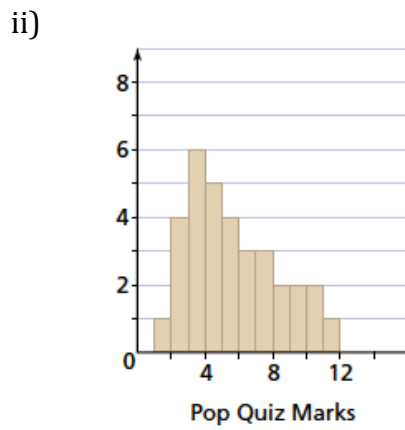
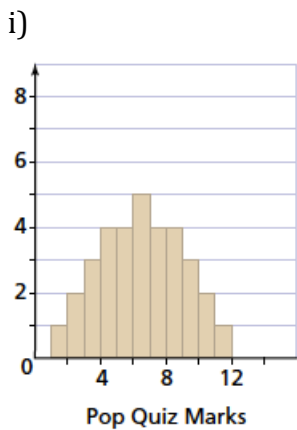
<b>Size</b>	4	5	6	7	8	9	10
<b>Frequency</b>	5	11	15	18	19	13	7

a) Calculate the mean, median, and mode shoe size.

b) Which measure of central tendency is most appropriate? Why?

3) Match each distribution with its mean, median, and mode.

- a) mean: 6.2      median: 6      mode: 3.8
- b) mean: 6      median: 6      mode: 10, 2
- c) mean: 6      median: 6      mode: 6
- d) mean: 8.1      median: 8.5      mode: 10



4) A pair of dice is rolled numerous times. The sum of the dice, as well as the frequency, is recorded. Calculate the mean, median, and mode for the results.

<b>Sum</b>	2	3	4	5	6	7	8	9	10	11	12
<b>Frequency</b>	2	3	5	7	9	11	8	7	4	2	1

5) Jasmine records the dates on 125 pennies. Find the mean and find the median and mode of the pennies.

<b>Date</b>	1990 - 1999	1980 -1989	1970 - 1979	1960 - 1969
<b>Frequency</b>	56	42	21	6