

Complete the following questions on a separate sheet of paper.

1. For the following sets of data, find the range.

- a) 6, 8, 11, 15, 24, 38
- b) 11, -6, -2, 16, 9, -8, 17, 19
- c) 6.4, 3.8, 5.9, 4.7, 5.3, 7.1, 3.2

2. For the data below, find the median, and the upper and lower quartiles

Data	6, 47, 49, 15, 43, 41, 7, 39, 43, 41, 36
Ordered data	
Median	
Q3	
Q1	

3. A year ago, Angela began working at a computer store. Her supervisor asked her to keep a record of the number of sales she made each month.

The following data set is a list of her sales for the last 12 months:

34, 47, 1, 15, 57, 24, 20, 11, 19, 50, 28, 37

Use Angela's sales records to find:

- a) the median
- b) the range
- c) the upper and lower quartiles
- d) the interquartile range

4. The following data represent the heights (in inches) of 14 students in Ms. Warner's math class: 65, 63, 68, 59, 74, 59, 68, 61, 64, 60, 69, 72, 55, 64.

Interval	Frequency
55-58	
59-62	
63-66	
67-70	
71-74	

- a) Complete the table.
- b) Which interval contains median?
- c) Which interval contains the upper quartile?
- d) What percent of the students are shorter than 5 feet 7 inches?

5. Complete questions 1- 15 for the data set below.

**Table 1**

22	33	37	53	57	69	85	102	106	112
23	33	38	53	59	70	86	104	107	112
24	35	41	54	61	70	101	105	109	117
28	36	42	54	69	75	101	105	110	119
30	36	49	56	69	82	102	106	110	120

1. \_\_\_\_\_ What is the percentile for 86?

9 \_\_\_\_\_ What is the percentile for 61?

2 \_\_\_\_\_ Find the 2nd percentile.

10 \_\_\_\_\_ Find the 60th percentile.

3 \_\_\_\_\_ Find the 2nd quartile.

11 \_\_\_\_\_ Find the 1st quartile.

4 \_\_\_\_\_ Find the 15% percentile.

12 \_\_\_\_\_ What is the percentile for 104?

5 \_\_\_\_\_ What is the percentile for 49?

13 \_\_\_\_\_ Find the 55th percentile.

6 \_\_\_\_\_ Find the 3rd quartile.

14 \_\_\_\_\_ Find the 20th percentile.

7 \_\_\_\_\_ Find the 88th percentile.

15 \_\_\_\_\_ What is the percentile for 70?

8 \_\_\_\_\_ Find the 75th percentile.