

Name: _____

Date: _____

For each of the following sets of data:

- a. Write the data in order.
- b. Find the mean, median, mode, and range.
- c. Tell whether the data is positively skewed (right), negatively skewed (left) or neutral.

1) 42 43 45 46 48 49 45 42 45

2) 52 53 51 54 56 58 58 57 56

3) 21 22 23 25 26 24 26 27 28

4) 31 31 33 35 36 35 38 29 31

5) 67 64 65 61 62 63 60 50 51

6) 5 3 6 8 4 5 6 2 1

Name: key

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1) 42 43 45 46 48 49 45 42 45

a.) 42, 42, 43, 45, 45, 45, 46, 48, 49

b.) $\bar{x} = 45$, median = 45, mode = 45, range = 7

c.) Normal distribution

2) 52 53 51 54 56 58 58 57 56

a.) 51, 52, 53, 54, 56, 56, 57, 58, 58

b.) $\bar{x} = 55$, median = 56, mode = 56 + 58, range = 7

c.) Negatively skewed

3) 21 22 23 25 26 24 26 27 28

a.) 21, 22, 23, 24, 25, 26, 26, 27, 28

b.) $\bar{x} = 24.67$, median = 25, mode = 26, range = 7

c.) ~~Normal distribution~~

Negative skew

4) 31 31 33 35 36 35 38 29 31

a.) 29, 31, 31, 31, 33, 35, 35, 36, 38

b.) $\bar{x} = 33.22$, median = 33, mode = 31, range = 9

c.) Right skewed

5) 67 64 65 61 62 63 60 50 51

a.) 50, 51, 60, 61, 62, 63, 64, 65, 67

b.) $\bar{x} = 60.33$, median = 62, mode = none, range = 7

c.) left

6) 5 3 6 8 4 5 6 2 1 a.) 1, 2, 3, 4, 5, 5, 6, 6, 8

b.) $\bar{x} = 4.44$, median = 5, mode = 5 + 6, range = 7