

NAME: _____

UNIT 4 • DESCRIBING DATA

Lesson 1: Working with a Single Measurement Variable

Practice 4.1.4: Interpreting Data Sets

Mrs. Wong is looking for a new babysitter. She asks 10 babysitters the rate they charge per hour. Each babysitter's rate in dollars per hour is listed in the table below. Use the table to solve problems 1–5.

Babysitter	Rate in dollars per hour
1	9.60
2	9.80
3	15.50
4	10.60
5	9.70
6	10.20
7	8.80
8	11.20
9	8.80
10	10.10

1. Are there any outliers in the data set? Explain.
2. Mrs. Wong wants to estimate the hourly rate of any given babysitter. How should she estimate the rate? Why?
3. What is the estimated rate of any given babysitter?
4. Create a box plot showing Mrs. Wong's data.
5. How do the outliers influence the shape and spread of the data?

continued

NAME: _____

UNIT 4 • DESCRIBING DATA

Lesson 1: Working with a Single Measurement Variable

Brady is keeping track of the calories in each snack he eats. He records the number of calories in each snack he eats in a week in the table below. Use the table to solve problems 6–10.

Snack	Calories	Snack	Calories
1	440	11	120
2	270	12	80
3	360	13	450
4	430	14	470
5	220	15	170
6	180	16	150
7	500	17	370
8	50	18	300
9	140	19	210
10	410	20	100

- Are there any outliers in the data set? Explain.
- Brady wants to estimate the number of calories in each snack he eats. Which measure of center should he use? Calculate the measure of center.
- Brady wants to understand how many calories are in the middle 50% of his snacks. Which graph should he create to show this information? Create the graph.
- Describe the shape and spread of the data, and how it is influenced by any outliers.
- Brady's doctor recommends that he eat a couple of healthy snacks each day, and that each snack should be around 200 calories. Using the measure of center and the graph, determine whether Brady is following his doctor's recommendation.