Name _____ Date _____ Class _____

Additional Practice

Investigation 3

Data About Us

1. The mean amount of change that Betty, Bill, and Susan have in their pockets is 79 cents. What is the total value of the change they have together? Explain.

2. Glenda rolled two six-sided number cubes nine times and computed the sum of the numbers rolled each time.

a. If the mean sum of Glenda's rolls was 6, what was the total of the nine sums Glenda rolled?

b. Suppose Glenda's rolls were 12, 7, 3, 10, 9, 2, 11, 7, and 8.

i. What is the median of Glenda rolls?

ii. What is the mean of Glenda's rolls?

iii. What is the mode of Glenda's rolls?

iv. Which do you think is the best indicator of a typical roll Glenda made, the median, mean, or mode? Explain your reasoning.

c. Suppose Glenda rolled a total sum of 60 for her nine rolls.

i. What is the mean sum for the rolls Glenda made?

ii. Give an example of nine rolls that Glenda could have made. Explain.

3. Mrs. Wilcox asked each of her students to spin a spinner with 50 equal sections labeled with whole numbers between 1 and 50. Below is a stem-and-leaf plot showing the results of the students' spins.

0	3 3 6 6
1	0 1 2 3 4 9 9
2	0 0 1 2 2 4 5 6
3	4 8 9
4	1 1 2 3 9
5	0

Key: 2 | 4 means 24

a. How many students are in Mrs. Wilcox's class?

b. What is the median number of spins by Mrs. Wilcox's students?

c. What is the mean number of spins by Mrs. Wilcox's students?

d. Which is the better measure of a typical number of spins by a student in Mrs. Wilcox's class, the median or the mean? Explain your reasoning.

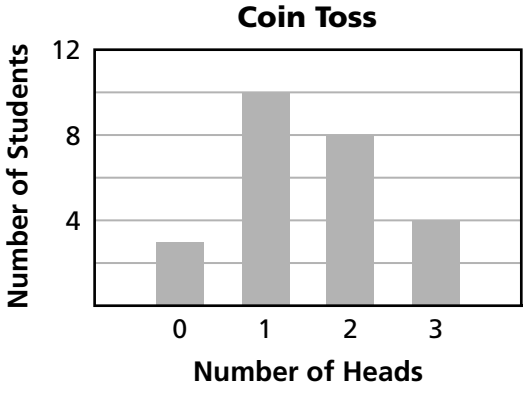
Additional Practice *(continued)*

4. The students in North Middle School had a contest to see who could save the most money. The mean savings in Ms. Jones' class (25 students) was the same as the mean savings for the whole school (300 students). The mean amount was $16.00.

a. What is the total savings for Ms. Jones' students? Explain.

b. What is the total savings for the whole school? Explain.

5. Every student in Mr. Smith's class tossed 3 coins and counted the number of heads. The bar graph below displays their results.



a. How many students are in Mr. Smith's class?

b. What is the mean number of heads?

c. What is the median number of heads?

d. How many heads did the students toss altogether?

e. How many tails did the students toss altogether?

Additional Practice *(continued)*

6. The Cycle Shoppe sells 10 brands of bicycles with these prices:

$90, $130, $180, $280, $320, $390, $670, $840, $1050, $1400

a. What is the mean price?

b. What is the median price?

c. Which price seems most typical? Explain your reasoning.

For Exercises 7 and 8, use this information.

Mr. Johnson's class of 20 students collects 180 cans of food for the food drive.
Ms. Smith's class of 25 students collects 200 cans of food.

7. Which class has a greater mean number of cans of food?

A. Mr. Johnson's class **B.** Ms. Smith's class

C. The means are equal. **D.** There isn't enough information to tell.

8. Which class has a greater median number of cans of food?

F. Mr. Johnson's class **G.** Ms. Smith's class

H. The means are equal. **J.** There isn't enough information to tell.