

**LESSON**  
**11-2 Practice B**  
**Mean, Median, Mode, and Range**

Find the mean, median, mode, and range of each data set. *Show the division problem for each mean.*

1. 46, 35, 23, 37, 29, 53, 43

2. 72, 56, 47, 69, 75, 48, 56, 57

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\_\_\_\_\_

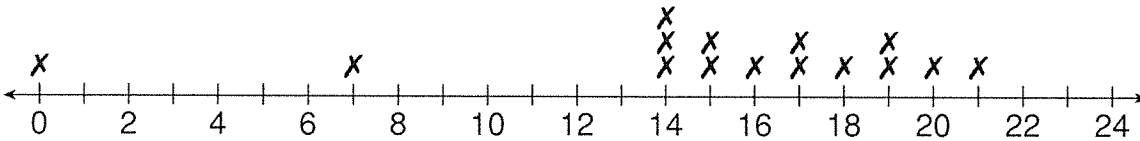
3. 19, 11, 80, 19, 27, 19, 10, 25, 15

4. 7, 8, 20, 6, 9, 11, 10, 8, 9, 8

\_\_\_\_\_

\_\_\_\_\_

5. The line plot shows the number of hours 15 students said they spent on homework in one week. Does the mean or median best describe the data? Justify your answer.



\_\_\_\_\_  
\_\_\_\_\_

Identify the outlier in each data set. Then determine how the outlier affects the mean, median, and mode of the data.

6. 14, 16, 13, 15, 5, 16, 12

\_\_\_\_\_  
\_\_\_\_\_

7. 48, 46, 52, 92, 57, 58, 52, 61, 56

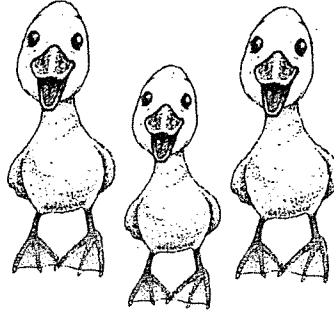
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## Ducklings

This problem gives you the chance to:

- fill in a frequency chart
  - work with median and mean
- 



The local nature club is carrying out a survey of the number of ducklings in each family of ducks in the lake.

Here are the results of their survey:

4, 7, 6, 5, 8, 7, 5, 4, 10, 4, 9, 6, 5, 4, 4, 5, 9, 8, 4

1. Write the results of the survey in the table. The first box has been completed for you.

Number of ducklings in a family	4	5	6	7	8	9	10
Number of families	6						

2. Find the median number of ducklings in a family. \_\_\_\_\_ ducklings  
Show your work.

3. Calculate the mean number of ducklings in a family. \_\_\_\_\_ ducklings  
Show your calculations.

4. Another family of ducks, that had been missed in the survey, is seen.  
When this family is put into the survey the mean number does not change.  
How many ducklings are there in this newly identified family? \_\_\_\_\_ ducklings  
Explain how you know this.

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**Basketball**

This problem gives you the chance to:

- interpret the results of a survey
- use percents

Marvin asked all the boys at a Grade 5 basketball tournament, “What is your favorite sport?”

The table shows the results of Marvin’s survey.

Sport	Number of boys
Baseball	19
Basketball	60
Football	19
Ice Hockey	12
Soccer	7
Other	3

1. How many boys are in Marvin’s survey? \_\_\_\_\_
2. What number is the mode? \_\_\_\_\_
3. What percentage of boys chose basketball? \_\_\_\_\_
4. What percentage of boys chose ice hockey? \_\_\_\_\_
5. Marvin says, “My survey shows that basketball is the most popular sport in the United States.”  
Give two reasons why Marvin’s conclusion may not be correct.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Distributive Property

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

Rewrite each expression below using the Distributive Property:

Factored Form	Distributed Form	Simplified Form
1. $5(x + 9)$	$5(x) + 5(9)$	$5x + 45$
2. $3(2y - 8)$	$3(2y) - 3(8)$	$6y - 24$
3. $12(x + y)$		
4. $5(2m + n - 7)$		
5. $9(a - b + 1)$		
6. $2(4x - 3)$		
7. $3(5m - n)$		
8. $6(a - 3b + c)$		
9. $x(x + 2)$		
10. $y(4 - y)$		
11. $m(5m + 3)$		
12. $7x(x + 8)$		
13. $a(a^2 + a)$		
14.	$5(x) + 5(8)$	