

*Learn*  
BRIGHT

# SUMMARIZING NUMERICAL DATA SETS

GRADE **6**

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- Practice Page ▶ page 6
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# Classroom Procedure:

1. Begin by reviewing various types of graphs.
2. While reading the content pages, reinforce vocabulary and give students additional examples of Summarizing Numerical Data Sets/Observations problems in order to help them practice. Use the additional resources to enhance understanding.
3. Introduce notes on Summarizing Numerical Data Sets/Observations. Have students practice problems using different types of graphs.
4. Follow Activity page with students. Have students work individually on the activity. Graphs should be hung around the room so that students can 'hunt' for them. Check answers as a class and answer any questions students might have.
5. Distribute Practice page. Check and review the students' responses as a class.
6. Distribute the Homework page. Go over answers at the beginning of class in order to check for understanding.
7. In closing, ask students to explain why knowing the number of observations in a data set is important. Allow for responses and discussion.

**Approximate Grade Level:** 6

**Objectives:** Students will be able to report the number of observations in data sets.

**State Educational Standards\***

LB.Math.Content.6.SP.B.5.A

**Class Sessions** (45 minutes): 1

**Teaching Materials/Worksheets:**

*Summarizing Numerical Data Sets/Observations* content pages

Activity pages

Practice page

Homework page

**Student Supplies:**

Record Sheet

**Prepare Ahead of Time:**

Copy Materials

Copy various dot plots and histograms to hang around the room

**Options for Lesson:** Integrate this lesson with other lessons focused on how to read or draw graphs. Help students understand that different graphs may have a key that includes a dot that represents more than one observation. Discuss the difference and similarities between an observation in math and an observation in science. Graphs can be cut apart and used in a smaller version.

\*Lessons are aligned to meet the education objectives and goals of most states. For more information on your state objectives, contact your local Board of Education or Department of Education in your state.



# Teacher Notes

This lesson helps students understand the components of presenting data in a graphical format. The lesson utilizes various visual representations of numerical statistical data. Students will learn how to identify the number of observations in a graph. The lesson will be most effective when used with other lessons pertaining to data collection and graphing.

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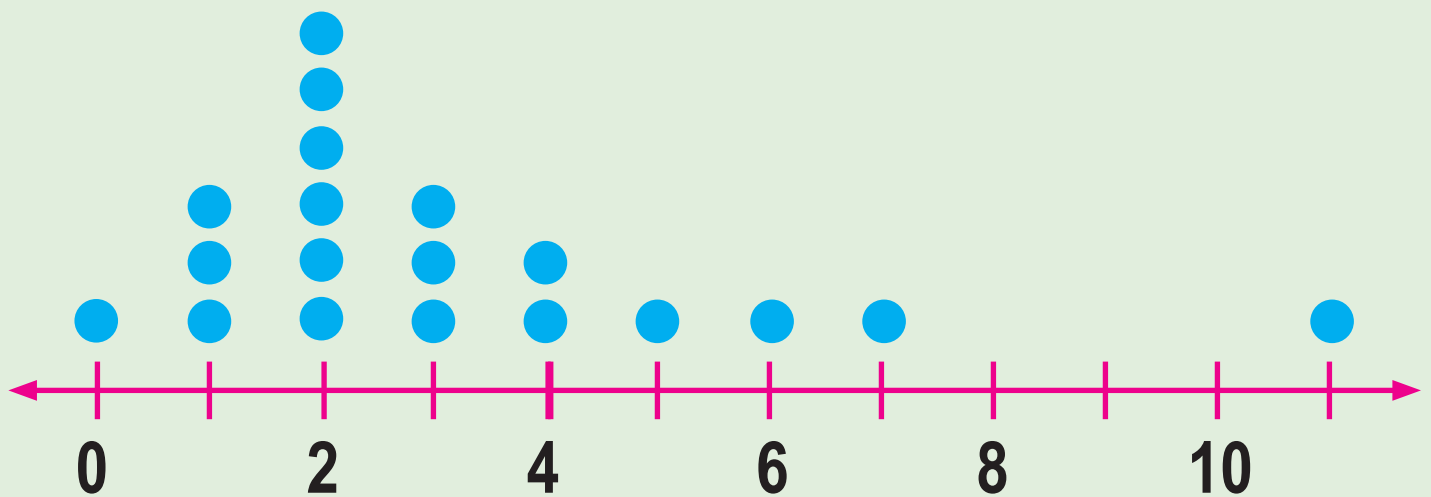
# Summarizing Numerical Data Sets/Observations

The number of observations in a data set is the total number of items or people that are counted or represented in the graph.

The number of observations in a data set is abbreviated as the lowercase letter  $n$ . If there are 3 observations, we would write  $n = 3$ .

It is important to know the number of observations in a data set because it can influence the significance of your results. As you learn more about statistics, the number of observations is used in other formulas.

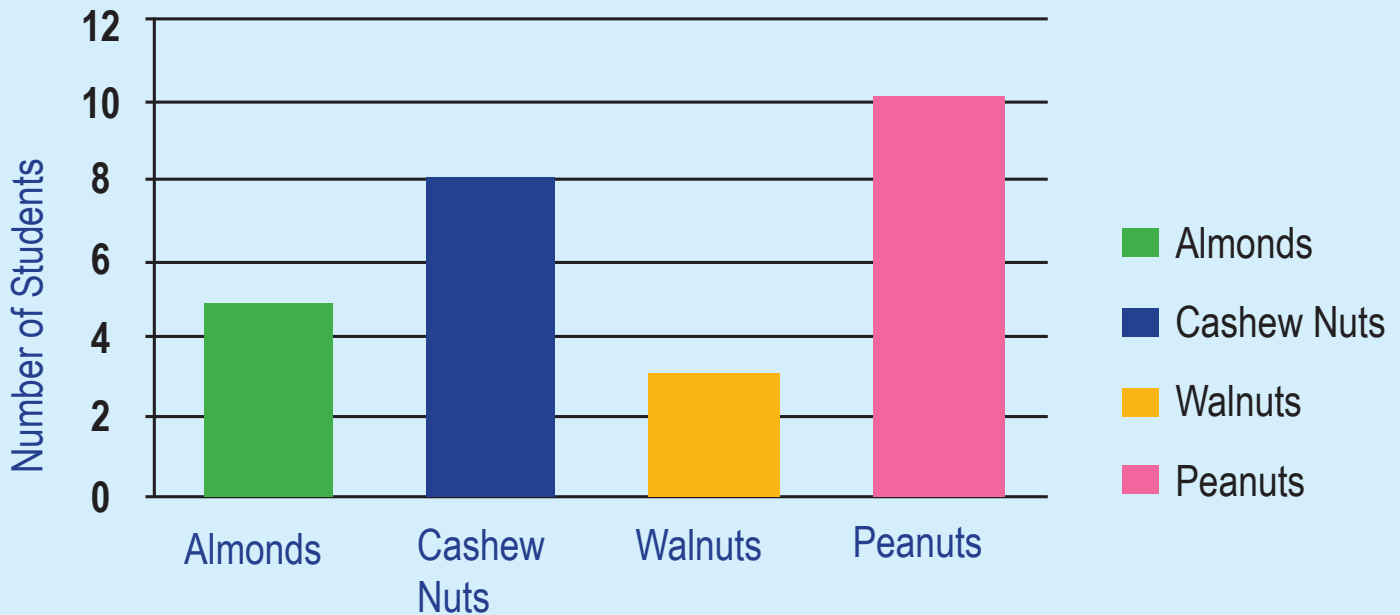
Let's look at a dot plot. To find the total number of observations, you count the total number of dots.



In this dot plot, we can add the number of dots:  $1 + 3 + 6 + 3 + 2 + 1 + 1 + 1 + 1 = 19$ .

There are 19 observations which we can write as  $n = 19$ .

Let's look at a bar graph. To find the number of observations, you follow the bar across to the y-axis and find the value of the bar. Then you add the values of each bar to find the total number of observations.



### Different kind of Nuts

In this bar graph, we can add the value of each bar:  $5 + 8 + 3 + 10 = 26$ .

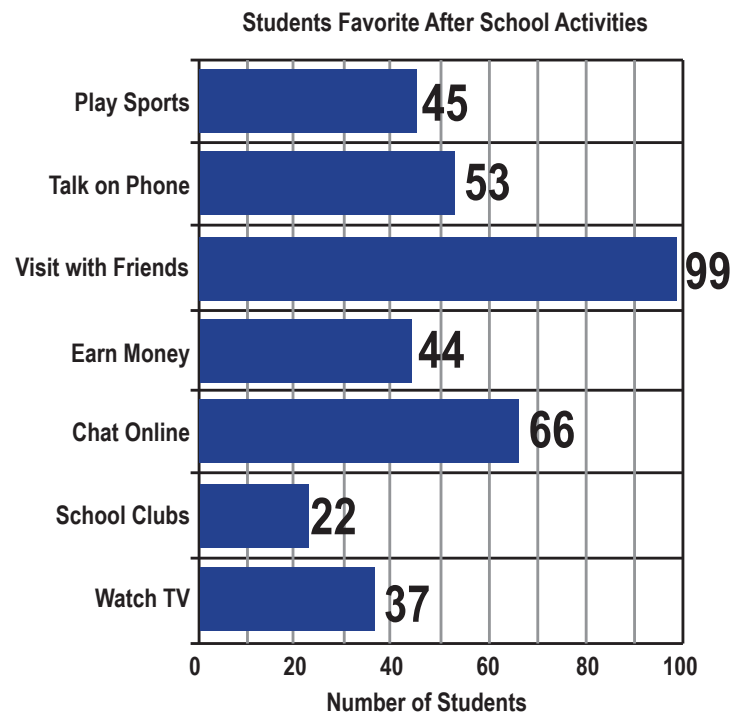
There are 26 observations which we can write as  $n = 26$ .

Sometimes graphs will display the number of observations in each bar so that you can easily read the information. To find the total number of observations, add the value of each bar.

$$45 + 53 + 99 + 44 + 66 + 22 + 37 = 366$$

There are 366 observations which we can write as  $n = 366$ .

Overall, the number of observations made can be found by counting up the total number of dots in a dot plot or by finding the values of each bar and adding them together in a bar graph. These observations help us to better understand the material presented and allow us to learn more about the data.





## Instructions

Locate the 9 graphs and write down the total number of observations.

①	②	③
④	⑤	⑥
⑦	⑧	⑨



## Instructions

How many observations are in each data set? If not stated, 1 dot = 1 observation.

<p>n = _____</p> <p><b>Dotplot of Random Values</b></p> <table border="1"> <caption>Dotplot of Random Values</caption> <thead> <tr><th>Random Value</th><th>Count</th></tr> </thead> <tbody> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>3</td></tr> <tr><td>5</td><td>2</td></tr> <tr><td>6</td><td>3</td></tr> <tr><td>7</td><td>4</td></tr> <tr><td>8</td><td>1</td></tr> <tr><td>9</td><td>3</td></tr> </tbody> </table>	Random Value	Count	0	2	1	2	2	4	3	3	4	3	5	2	6	3	7	4	8	1	9	3	<p>n = _____</p> <table border="1"> <caption>Dotplot (10-100)</caption> <thead> <tr><th>Value</th><th>Count</th></tr> </thead> <tbody> <tr><td>10</td><td>2</td></tr> <tr><td>20</td><td>2</td></tr> <tr><td>30</td><td>4</td></tr> <tr><td>40</td><td>2</td></tr> <tr><td>50</td><td>1</td></tr> <tr><td>60</td><td>2</td></tr> <tr><td>70</td><td>2</td></tr> <tr><td>80</td><td>3</td></tr> <tr><td>90</td><td>5</td></tr> <tr><td>100</td><td>10</td></tr> </tbody> </table>	Value	Count	10	2	20	2	30	4	40	2	50	1	60	2	70	2	80	3	90	5	100	10	<p>n = _____</p> <table border="1"> <caption>Number of pushups</caption> <thead> <tr><th>Number of pushups</th><th>Count</th></tr> </thead> <tbody> <tr><td>30</td><td>1</td></tr> <tr><td>31</td><td>1</td></tr> <tr><td>32</td><td>4</td></tr> <tr><td>33</td><td>2</td></tr> <tr><td>34</td><td>1</td></tr> <tr><td>35</td><td>5</td></tr> </tbody> </table>	Number of pushups	Count	30	1	31	1	32	4	33	2	34	1	35	5
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# Homework

Name \_\_\_\_\_ Date \_\_\_\_\_



Homework

Name \_\_\_\_\_ Date \_\_\_\_\_

## Instructions

Go online and find 3 dot plots and 3 bar graphs. Find the number of observations in the data set. You can copy and paste the graphs into a word document or print them out. Write your answers as  $n = \underline{\hspace{2cm}}$ .





Possible Graphs to Use

<p>①</p> <p><b>Favorite Cereal</b></p> <table border="1"> <thead> <tr> <th>Type of Cereal</th> <th>Number of Votes</th> </tr> </thead> <tbody> <tr> <td>Corn Flakes</td> <td>4</td> </tr> <tr> <td>Cheerios</td> <td>2</td> </tr> <tr> <td>Life</td> <td>6</td> </tr> <tr> <td>Kk</td> <td>3</td> </tr> </tbody> </table>	Type of Cereal	Number of Votes	Corn Flakes	4	Cheerios	2	Life	6	Kk	3	<p>②</p> <p><b>WHAT KIND OF PET DO YOU OWN</b></p> <table border="1"> <thead> <tr> <th>Pet Type</th> <th>Number of Owners</th> </tr> </thead> <tbody> <tr> <td>Rabbit</td> <td>4</td> </tr> <tr> <td>Dog</td> <td>8</td> </tr> <tr> <td>Cat</td> <td>10</td> </tr> <tr> <td>Goldfish</td> <td>6</td> </tr> <tr> <td>Hamster</td> <td>5</td> </tr> </tbody> </table>	Pet Type	Number of Owners	Rabbit	4	Dog	8	Cat	10	Goldfish	6	Hamster	5	<p>③</p> <p><b>Our Favorite Sports</b></p> <table border="1"> <thead> <tr> <th>Sports</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>Soccer</td> <td>9</td> </tr> <tr> <td>Softball</td> <td>4</td> </tr> <tr> <td>Basketball</td> <td>6</td> </tr> <tr> <td>Other</td> <td>3</td> </tr> </tbody> </table>	Sports	Number of Students	Soccer	9	Softball	4	Basketball	6	Other	3																												
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Answer Key:

- 1. 15
- 2. 33
- 3. 22
- 4. 28
- 5. 26
- 6. 22
- 7. 20
- 8. 50
- 9. 20



## Instructions

How many observations are in each data set? If not stated, 1 dot = 1 observation.

<p>n = <u>50</u></p> <p><b>Dotplot of Random Values</b></p> <table border="1"> <caption>Dotplot of Random Values</caption> <thead> <tr><th>Random Value</th><th>Count</th></tr> </thead> <tbody> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>2</td></tr> <tr><td>6</td><td>3</td></tr> <tr><td>7</td><td>5</td></tr> <tr><td>8</td><td>1</td></tr> <tr><td>9</td><td>4</td></tr> </tbody> </table>	Random Value	Count	0	2	1	2	2	4	3	4	4	4	5	2	6	3	7	5	8	1	9	4	<p>n = <u>100</u></p> <table border="1"> <caption>Dotplot (10-100)</caption> <thead> <tr><th>Value</th><th>Count</th></tr> </thead> <tbody> <tr><td>10</td><td>2</td></tr> <tr><td>20</td><td>2</td></tr> <tr><td>30</td><td>4</td></tr> <tr><td>40</td><td>2</td></tr> <tr><td>50</td><td>1</td></tr> <tr><td>60</td><td>2</td></tr> <tr><td>70</td><td>2</td></tr> <tr><td>80</td><td>3</td></tr> <tr><td>90</td><td>5</td></tr> <tr><td>100</td><td>10</td></tr> </tbody> </table>	Value	Count	10	2	20	2	30	4	40	2	50	1	60	2	70	2	80	3	90	5	100	10	<p>n = <u>14</u></p> <table border="1"> <caption>Number of pushups</caption> <thead> <tr><th>Number of pushups</th><th>Count</th></tr> </thead> <tbody> <tr><td>30</td><td>1</td></tr> <tr><td>31</td><td>1</td></tr> <tr><td>32</td><td>4</td></tr> <tr><td>33</td><td>2</td></tr> <tr><td>34</td><td>1</td></tr> <tr><td>35</td><td>5</td></tr> </tbody> </table>	Number of pushups	Count	30	1	31	1	32	4	33	2	34	1	35	5								
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# Homework

Name \_\_\_\_\_ *Answer Key* Date \_\_\_\_\_



## Instructions

Go online and find 3 dot plots and 3 bar graphs. Find the number of observations in the data set. You can copy and paste the graphs into a word document or print them out. Write your answers as  $n = \underline{\hspace{2cm}}$ .

*Graphs will vary, but students should have marked  $n = \underline{\hspace{2cm}}$  for each one.*