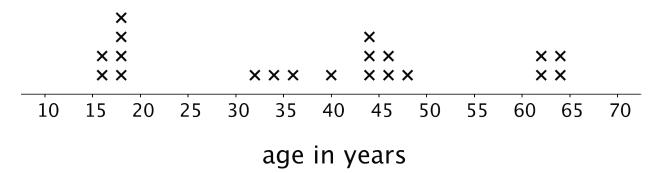
### **Unit 8 Lesson 1: Got Data?**

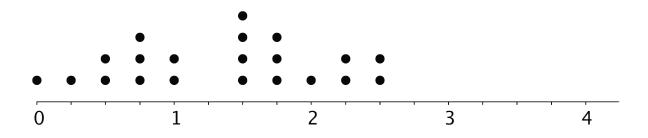
## 1 Dots of Data (Warm up)

**Images for Launch** 



#### **Student Task Statement**

Here is a **dot plot** for a data set.



- 1. Determine if each of the following would be an appropriate label to represent the data in the dot plot? Be prepared to explain your reasoning.
  - a. Number of children per class.
  - b. Distance between home and school, in miles.
  - c. Hours spent watching TV each day.
  - d. Weight of elephants, in pounds.
  - e. Points received on a homework assignment.
- 2. Think of another label that can be used with the dot plot.
  - a. Write it below the scale of the dot plot. Be sure to include the unit of measurement.
  - b. In your scenario, what does one dot represent?

c. In your scenario, what would a data point of 0 mean? What would a data point of  $3\frac{1}{4}$  mean?

## 2 Surveying the Class

### **Student Task Statement**

Here are some survey questions. Your teacher will explain which questions can be used to learn more about the students in your class and how the responses will be collected. The data that your class collects will be used in upcoming activities.

1. How long does it usually take	e vou to travel to school? A	nswer to the nearest minute
· ·		
2. How do you travel to school	on most days? Choose one	2.
o Walk	° Car	<ul> <li>Public transport</li> </ul>
○ Bike	<ul><li>School bus</li></ul>	o Other
<ul> <li>Scooter or skateboard</li> </ul>		
3. How tall are you without you	ır shoes on? Answer to the	nearest centimeter.
4. What is the length of your rig	ght foot without your shoe	on? Answer to the nearest centimeter.
	ger to the tip of your left ha	neasure the distance from the tip of and's middle finger, across your back.
<ol><li>How important are the follow 10 (very important).</li></ol>	wing issues to you? Rate ea	ach on a scale from 0 (not important) to
a. Reducing pollution		
b. Recycling		
c. Conserving water		
7. Do you have any siblings?	Yes No	
8. How many hours of sleep pe Answer to the nearest half h		when you have school the next day?
9. How many hours of sleep pe day? Answer to the nearest h	0 , , , ,	when you do not have school the next
10. Other than traveling from sc	hool, what do you do right	after school on most days?
○ Have a snack	o Practice a sport	
<ul> <li>Do homework</li> </ul>	<ul><li>Do chores</li></ul>	
<ul> <li>Read a book</li> </ul>	<ul> <li>Use the computer</li> </ul>	
o Talk on the phone	o Participate in an e	extracurricular activity
11. If you could meet one of the	se celebrities, who would y	ou choose?

- A city or state leader
- A musical artist
- A champion athlete
- A best-selling author
- o A movie star
- 12. Estimate how much time per week you usually spend on each of these activities. Answer to the nearest quarter of an hour.
  - a. Playing sports or doing outdoor activities
  - b. Using a screen for fun (watching TV, playing computer games, etc.)
  - c. Doing homework
  - d. Reading

# **3 Numerical and Categorical Data**

### **Student Task Statement**

The list of survey questions in the activity earlier can help you complete these exercises.

	ravel <i>time</i> produces <b>numerical data</b> . Identify two other all data. For each, describe what was measured and its unit of
a. Question #:	What was measured:
	Unit of measurement:
b. Question #:	What was measured:
	Unit of measurement:
	ut travel <i>method</i> produces <b>categorical data</b> . Identify two other cal data. For each, describe what characteristic or feature was
a. Question #:	Characteristic being studied:
b. Question #:	Characteristic being studied:
3. Think about the responses to the categorical data? Be prepared to	ese survey questions. Do they produce numerical or explain how you know.
a. How many pets do you hav	e?
b. How many years have you l	ived in this state?
c. What is your favorite band?	
d. What kind of music do you	like best?
e. What is the area code of yo	ur school's phone number?
f. Where were you born?	
g. How much does your backp	pack weigh?
-	uld investigate to learn more about your classmates. Make data and the other would give numerical data.