Name	Date	Class
Additional Practice		Investigation 3
• • • • • • • • • • • • • • • • • • • •	••••••	Data Distributions
1. Write three different statements that describe reaction times from the value bar graph.	the variability in Leał	ı's



- **2.** Below is a value bar graph showing data about Ella's reaction times. Compare Ella's reaction times to Leah's reaction times.
 - a. Determine statistics for each student: means, medians, and ranges.
 - **b.** Is one student quicker than the other student? Explain your reasoning.
 - c. Is one student more consistent than the other student? Explain.



Nar	ne	Date	Cla	SS
Ad	ditional Practice (continued)			Investigation 3
••••		•••••		Data Distributions
3. 7 2 s t	The sample of data below is about from 50 students – 5 male students. Two questions on a survey asked stu- timulus, once with their right hands and once with th o respond is recorded in seconds. Below are two grap nd one for LEFT hand response data.	25 female stu idents to resp eir left hands ohs, one for F	idents and pond to a s. Their time RIGHT hand	

- **a.** Are students quicker with their right hands or their left hands? Justify your reasoning.
- **b.** Are students more consistent with their right hands or their left hands? Justify your reasoning.
- **c.** We have been using data that look at a person's dominant hand and non-dominant hand in the Investigation. Is it possible that, for some of the students, their right hand was their non-dominant hand? Explain.



SOURCE: www.censusonline.net

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Additional Practice (continued)

Name

Investigation 3

Class

- **Data Distributions**
- **4.** Using the same data set about reaction times, compare the male reaction times with their right hands to the female reaction times with their right hands. Look at the graphs below.



Date

- **a.** For both females and males, their means and medians are different. What accounts for this happening?
- **b.** Are females quicker than males using their right hands? Justify your reasoning.
- **c.** Are females more consistent than males using their right hands? Justify your reasoning.

Name	Date	Class
Additional Practice (continued)		Investigation 3
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5. Using the same data set about reaction times, compare the male reaction times with their left hands to the female reaction times with their left hands. Look at the graphs below.



a. For both females and males, the means and medians are different. What might account for this happening?

b. Are females quicker than males using their left hands? Justify your reasoning.

c. Are females more consistent than males using their left hands? Justify your reasoning.