Foot Length: Create a Line Plot with Fractional Units

Name:_____ Date:_____

Akram read an article that stated that children are reaching their peak size at a younger age. The article stated that by comparing data of children's foot size at 10-11 years old in 1967 and comparing it to foot size data in 2017 supported the claim that children were growing faster. Akram wanted to compare his class' foot size data to that in the article, so he surveyed his classmates. Create a line plot using Akram's class data. Then answer the questions below.

_____
Title

Answer Sheet

We don't know. Some students may have read more but since the highest choice is 1 ¼ hours or more we don't know what those X's actually represent.

Line Plot of Akram's Class Foot Length

Name	Length (inches)
Ginger	7¼
Hitomi	9
Adriana	8
Akram	8¾
Diego	7 ¾
David	8 ¼
Aisha	9
Maggie	8 ¼
Tatum	8 ¾
Yassin	7¼
Gary	9
Robert	8 ¼
Thomas	8 ½
Andrea	9 ¼
Melissa	7 ½
Xavier	8 ¾
Latrell	8
Natalia	7 ¾
Fantasia	8 ¾
Sophia	9 ¼
Dorian	8
Michael	8 ¾
Nicole	9 ½
Joaquin	8 ½
Evalyse	9 ¼
Joe	8 ½
Juan	10
Akemi	8 ¾

4

1 ¼

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1. The article that Akram read stated that the most common foot length of 5th graders fifty years ago was 8 ¼ inches? How does Akram's class' foot lengths compare?

Answer Sheet

¼ hour

11

2. Does the research that Akram conducted with his class support the claim that children's feet are bigger at a younger age? _____ Explain your thinking:

7 hours and 45 min

3. Write a conclusive statement about Akram's class' foot size that can be supported by his data:

Answers will vary but you want to emphasize that each class is a different sample of readers but is unlikely to have a drastically different outcome. You could create a line plot with your class to test this theory.

4. If you were to conduct a follow-up study to find out more about how children of today compare with children fifty years ago, what other questions would you want to ask?

Answers will vary.

Answers will vary.

Answers will vary.