



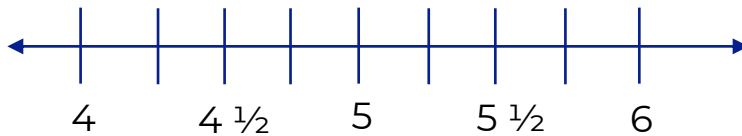
Name :

Date :

Fractions on line plots

On the line plot below, graph the following information

1. Mia was measuring her pet geckos, and recording their lengths. Below are the measurements for her 15 geckos in inches: $5\frac{1}{2}$, $4\frac{1}{4}$, 5, $4\frac{3}{4}$, $5\frac{1}{2}$, $5\frac{3}{4}$, $4\frac{1}{4}$, $5\frac{1}{2}$, $5\frac{3}{4}$, 5, $4\frac{1}{2}$, $5\frac{3}{4}$, $4\frac{3}{4}$, $5\frac{1}{2}$, $5\frac{1}{4}$. Arrange this data on the line plot below:



Lengths of Geckos in inches

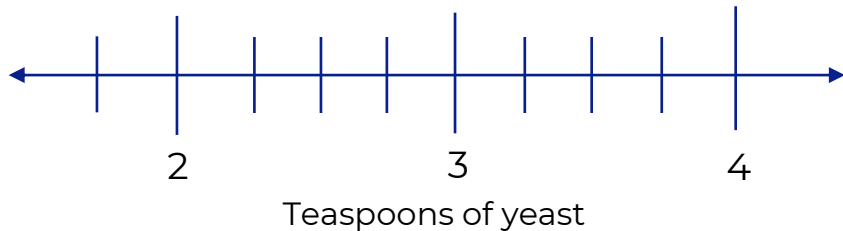
1.1. What is the difference in length between the longest and the shortest gecko?

1.2. How many more geckos were $5\frac{1}{2}$ inches than $4\frac{3}{4}$ inches?



Fractions on line plots

2. Eric was putting together a cookbook of his great grandmother's bread recipes. There were all sorts of breads: white bread, dinner rolls, cornbread, pizza dough, raisin bread, and more...and all of them used different amounts of yeasts. Below is a line plot of the amount of teaspoons of yeast in all the different recipes:



2.1. How many bread recipes are represented in this line plot?

2.2. How much yeast would Eric need to make two batches of the bread that required the most yeast?

2.3. How many more recipes require $2\frac{3}{4}$ teaspoons of yeast than $3\frac{1}{2}$ teaspoons?

2.4. How many recipes require $2\frac{1}{2}$ teaspoons of yeast or $3\frac{1}{4}$ teaspoons?

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Fractions on line plots

3. Chen loves his tea collection. Each type of tea requires a different amount of tea leaves in order to brew the best cup of tea. Below are the measurements of his teas in ounces: $1\frac{1}{2}$, 2, 1, $1\frac{1}{4}$, 1, $2\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{1}{4}$, $1\frac{3}{4}$, $1\frac{1}{8}$, $2\frac{3}{8}$, $2\frac{1}{8}$, 2, $1\frac{3}{4}$, $1\frac{5}{8}$, $2\frac{1}{8}$. Plot them on a line plot, label the units and title the line plot

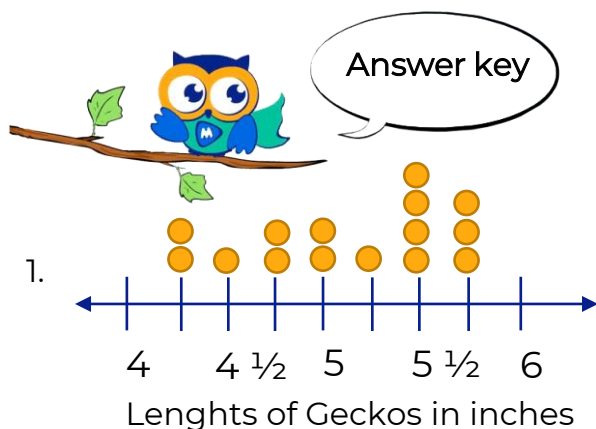


3.1. How many teas are there in total?

3.2. What is the greatest number of ounces required for any of his teas?
What is the least?

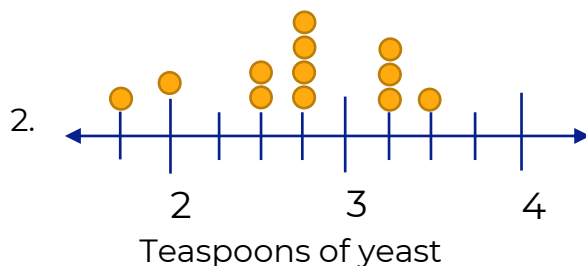


Fractions on line plots



- 1.1. $5 \frac{3}{4} - 4 \frac{1}{4}$
 $1 \frac{2}{4}$
 $1 \frac{1}{2}$
There's a difference of $1 \frac{1}{2}$ inches

- 1.2. $5 \frac{1}{2}$ inches \rightarrow 4 geckos
 $4 \frac{3}{4} \rightarrow$ 2 geckos
 $4 - 2 = 2$
There are 2 more geckos.

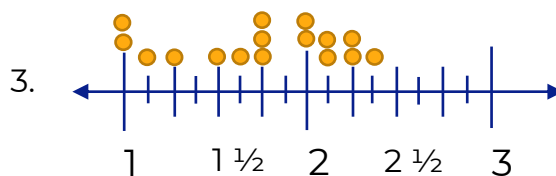


- 2.1. 12 recipes

- 2.2. Most yeast $\rightarrow 3 \frac{1}{2}$ tsp
 $3 \frac{1}{2} + 3 \frac{1}{2} = 7$
Paul would need 7 teaspoons of yeast.

- 2.3. 12 recip $2 \frac{3}{4}$ tsp \rightarrow 4 recipes
 $3 \frac{1}{2} \rightarrow$ 1 recipe
 $4 - 1 = 3$
3 more recipes
There are 3 more recipes.

- 2.4. $2 \frac{1}{2}$ tsp- 2 recipes
 $3 \frac{1}{4}$ tsp- 3 recipes
 $2 + 3 = 5$
There are 5 recipes



- 3.1. 16

- 3.2. The greatest is $2 \frac{3}{8}$ ounces.
The least is 1 ounce.