Line Plots

Name: _____ Date: _____ Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

A line plot shows pencil lengths in inches: $\frac{3}{8}$→2 Xs, $\frac{4}{8}$→5 Xs, $\frac{5}{8}$→3 Xs, $\frac{6}{8}$→4 Xs. A student says the range is $\frac{6}{8}$ inch.

Rewrite: _____

2. Fix the sentence:

A line plot shows seed weights in grams: $\frac{1}{4}$→4 Xs, $\frac{2}{4}$→3 Xs, $\frac{3}{4}$→6 Xs. A student says 6 seeds weigh less than $\frac{3}{4}$ gram.

Rewrite: _____

3. Fix the sentence:

A line plot shows clay weights in pounds: $\frac{1}{8}$→3 Xs, $\frac{2}{8}$→5 Xs, $\frac{3}{8}$→1 X, $\frac{4}{8}$→4 Xs. A student says there are 4 different values and 4 data points.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows string lengths in feet: $\frac{1}{4}$→5 Xs, $\frac{2}{4}$→2 Xs, $\frac{3}{4}$→4 Xs, 1→3 Xs. The value with the most X marks is _____.

2. Using the string data, the total number of strings measured is _____.

3. A line plot shows sugar in cups: $\frac{1}{8}$→4 Xs, $\frac{2}{8}$→2 Xs, $\frac{3}{8}$→6 Xs, $\frac{4}{8}$→3 Xs. The number of recipes that use $\frac{3}{8}$ cup or more is _____.

4. Using the sugar data, the difference between the number of recipes using $\frac{3}{8}$ cup and the number using $\frac{2}{8}$ cup is _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

A line plot shows pencil lengths in inches: $\frac{3}{8}$→2 Xs, $\frac{4}{8}$→5 Xs, $\frac{5}{8}$→3 Xs, $\frac{6}{8}$→4 Xs. A student says the range is $\frac{6}{8}$ inch.

Rewrite: The range is $\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$ inch. The range is the difference between the greatest and least values, not just the greatest value.

2. Fix the sentence:

A line plot shows seed weights in grams: $\frac{1}{4}$→4 Xs, $\frac{2}{4}$→3 Xs, $\frac{3}{4}$→6 Xs. A student says 6 seeds weigh less than $\frac{3}{4}$ gram.

Rewrite: Seeds weighing less than $\frac{3}{4}$ gram: $\frac{1}{4}(4) + \frac{2}{4}(3) = 7$ seeds, not 6. The student miscounted the data points.

3. Fix the sentence:

A line plot shows clay weights in pounds: $\frac{1}{8}$→3 Xs, $\frac{2}{8}$→5 Xs, $\frac{3}{8}$→1 X, $\frac{4}{8}$→4 Xs. A student says there are 4 different values and 4 data points.

Rewrite: There are 4 different values, but there are 13 data points (3 + 5 + 1 + 4 = 13). Each X mark is one data point, not each value on the number line.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows string lengths in feet: $\frac{1}{4}$→5 Xs, $\frac{2}{4}$→2 Xs, $\frac{3}{4}$→4 Xs, 1→3 Xs. The value with the most X marks is $\frac{1}{4}$.

2. Using the string data, the total number of strings measured is 14.

3. A line plot shows sugar in cups: $\frac{1}{8}$→4 Xs, $\frac{2}{8}$→2 Xs, $\frac{3}{8}$→6 Xs, $\frac{4}{8}$→3 Xs. The number of recipes that use $\frac{3}{8}$ cup or more is 9.

4. Using the sugar data, the difference between the number of recipes using $\frac{3}{8}$ cup and the number using $\frac{2}{8}$ cup is 4.

Part C: Short Answer