Line Plots with Fractions

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: $\frac{1}{8}$→2 Xs, $\frac{2}{8}$→4 Xs, $\frac{3}{8}$→1 X, $\frac{4}{8}$→3 Xs. A student says the mode is $\frac{4}{8}$ because it is the largest fraction.

Rewrite: _____

2. Fix the sentence:

A line plot shows: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→2 Xs. A student says there are 3 data points total.

Rewrite: _____

3. Fix the sentence:

A line plot shows: $\frac{1}{4}$→1 X, $\frac{1}{2}$→3 Xs, $\frac{3}{4}$→2 Xs, 1→4 Xs. A student says $\frac{1}{2}$ has the fewest X marks.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows ribbon lengths in yards: $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→6 Xs, $\frac{3}{4}$→3 Xs, 1→1 X. The most common ribbon length is _____.

2. A line plot shows ribbon lengths in yards: $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→6 Xs, $\frac{3}{4}$→3 Xs, 1→1 X. The total number of ribbons measured is _____.

3. A line plot shows amounts of water in cups: $\frac{1}{8}$→3 Xs, $\frac{3}{8}$→5 Xs, $\frac{5}{8}$→2 Xs, $\frac{7}{8}$→4 Xs. The number of containers with $\frac{7}{8}$ cup is _____.

4. A line plot shows amounts of water in cups: $\frac{1}{8}$→3 Xs, $\frac{3}{8}$→5 Xs, $\frac{5}{8}$→2 Xs, $\frac{7}{8}$→4 Xs. The value with the fewest X marks is _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. A line plot shows caterpillar lengths in inches: $\frac{1}{4}$→4 Xs, $\frac{1}{2}$→2 Xs, $\frac{3}{4}$→5 Xs, 1→1 X. How many more

Answer Key · Line Plots with Fractions · 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: $\frac{1}{8}$→2 Xs, $\frac{2}{8}$→4 Xs, $\frac{3}{8}$→1 X, $\frac{4}{8}$→3 Xs. A student says the mode is $\frac{4}{8}$ because it is the largest fraction.

Rewrite: The mode is $\frac{2}{8}$ because it has the most X marks (4 Xs). Mode means the most frequent value, not the largest.

2. Fix the sentence:

A line plot shows: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→2 Xs. A student says there are 3 data points total.

Rewrite: There are 10 data points total (3 + 5 + 2 = 10). Each X mark represents one data point, not each position on the line.

3. Fix the sentence:

A line plot shows: $\frac{1}{4}$→1 X, $\frac{1}{2}$→3 Xs, $\frac{3}{4}$→2 Xs, 1→4 Xs. A student says $\frac{1}{2}$ has the fewest X marks.

Rewrite: $\frac{1}{4}$ has the fewest X marks with only 1 X. The value $\frac{1}{2}$ has 3 Xs, which is not the fewest.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows ribbon lengths in yards: $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→6 Xs, $\frac{3}{4}$→3 Xs, 1→1 X. The most common ribbon length is $\frac{1}{2}$.

2. A line plot shows ribbon lengths in yards: $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→6 Xs, $\frac{3}{4}$→3 Xs, 1→1 X. The total number of ribbons measured is 12.

3. A line plot shows amounts of water in cups: $\frac{1}{8}$→3 Xs, $\frac{3}{8}$→5 Xs, $\frac{5}{8}$→2 Xs, $\frac{7}{8}$→4 Xs. The number of containers with $\frac{7}{8}$ cup is 4.

4. A line plot shows amounts of water in cups: $\frac{1}{8}$→3 Xs, $\frac{3}{8}$→5 Xs, $\frac{5}{8}$→2 Xs, $\frac{7}{8}$→4 Xs. The value with the fewest X marks is $\frac{5}{8}$.

Part C: Short Answer

Answer each question in one or two complete sentences.