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 marble weights in ounces: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→4 Xs, $\frac{3}{4}$→5 Xs, 1→2 Xs. A student says the median weight is $\frac{3}{4}$ ounce because it has the most X marks.

Rewrite: _____

2. Fix the sentence:

A line plot shows bead sizes in centimeters: $\frac{1}{8}$→6 Xs, $\frac{2}{8}$→3 Xs, $\frac{3}{8}$→2 Xs, $\frac{4}{8}$→5 Xs. A student says the total number of beads is 4 because there are 4 sizes shown.

Rewrite: _____

3. Fix the sentence:

A line plot shows liquid in bottles (liters): $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→7 Xs, $\frac{3}{4}$→3 Xs. A student says the least common amount is $\frac{1}{4}$ liter because $\frac{1}{4}$ is the smallest fraction.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows walking times in hours: $\frac{1}{4}$→6 Xs, $\frac{1}{2}$→3 Xs, $\frac{3}{4}$→5 Xs, 1→1 X. The mode of the data is _____.

2. Using the walking time data, the number of people who walked $\frac{3}{4}$ hour or longer is _____.

3. A line plot shows fabric lengths in yards: $\frac{3}{8}$→4 Xs, $\frac{4}{8}$→2 Xs, $\frac{5}{8}$→5 Xs, $\frac{6}{8}$→3 Xs. The value that appears the least often is _____.

4. Using the fabric data, how many more pieces measured $\frac{5}{8}$ yard than $\frac{3}{8}$ yard? Answer: _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

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

Answer Key · Line Plots · Grade: Grade 5

Part A: Fix the Sentence

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1. Fix the sentence:

A line plot shows marble weights in ounces: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→4 Xs, $\frac{3}{4}$→5 Xs, 1→2 Xs. A student says the median weight is $\frac{3}{4}$ ounce because it has the most X marks.

Rewrite: Having the most X marks gives the mode, not the median. The mode is $\frac{3}{4}$ ounce. To find the median, list all 14 values in order and find the middle value.

2. Fix the sentence:

A line plot shows bead sizes in centimeters: $\frac{1}{8}$→6 Xs, $\frac{2}{8}$→3 Xs, $\frac{3}{8}$→2 Xs, $\frac{4}{8}$→5 Xs. A student says the total number of beads is 4 because there are 4 sizes shown.

Rewrite: The total number of beads is 16 (6 + 3 + 2 + 5 = 16). There are 4 sizes shown, but each X mark represents one bead.

3. Fix the sentence:

A line plot shows liquid in bottles (liters): $\frac{1}{4}$→2 Xs, $\frac{1}{2}$→7 Xs, $\frac{3}{4}$→3 Xs. A student says the least common amount is $\frac{1}{4}$ liter because $\frac{1}{4}$ is the smallest fraction.

Rewrite: The least common amount is $\frac{1}{4}$ liter, but the reason is that it has the fewest X marks (2 Xs), not because it is the smallest fraction. The reasoning is about frequency, not size.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows walking times in hours: $\frac{1}{4}$→6 Xs, $\frac{1}{2}$→3 Xs, $\frac{3}{4}$→5 Xs, 1→1 X. The mode of the data is $\frac{1}{4}$.

2. Using the walking time data, the number of people who walked $\frac{3}{4}$ hour or longer is 6.

3. A line plot shows fabric lengths in yards: $\frac{3}{8}$→4 Xs, $\frac{4}{8}$→2 Xs, $\frac{5}{8}$→5 Xs, $\frac{6}{8}$→3 Xs. The value that appears the least often is $\frac{4}{8}$.

4. Using the fabric data, how many more pieces measured $\frac{5}{8}$ yard than $\frac{3}{8}$ yard? Answer: 1.

Part C: Short Answer

Answer each question in one or two complete sentences.