



# 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 plant heights:  $\frac{1}{4} \rightarrow 3$  Xs,  $\frac{1}{2} \rightarrow 2$  Xs,  $\frac{3}{4} \rightarrow 4$  Xs,  $1 \rightarrow 1$  X. A student says more plants are  $\frac{1}{2}$  foot or shorter than taller. Shorter: 5. Taller: 5.

Rewrite: \_\_\_\_\_

2. Fix the sentence:

A line plot shows snowfall in inches:  $\frac{1}{4} \rightarrow 5$  Xs,  $\frac{1}{2} \rightarrow 3$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs. A student says the total snowfall across all days is 10 inches.

Rewrite: \_\_\_\_\_

3. Fix the sentence:

A line plot shows trail lengths in miles:  $\frac{1}{8} \rightarrow 2$  Xs,  $\frac{3}{8} \rightarrow 4$  Xs,  $\frac{5}{8} \rightarrow 3$  Xs,  $\frac{7}{8} \rightarrow 1$  X. A student says 6 trails are longer than  $\frac{2}{8}$  mile.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows hours spent reading:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 7$  Xs,  $\frac{3}{4} \rightarrow 3$  Xs,  $1 \rightarrow 2$  Xs. The number of students who read  $\frac{1}{2}$  hour or more is \_\_\_\_\_.

2. A line plot shows hours spent reading:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 7$  Xs,  $\frac{3}{4} \rightarrow 3$  Xs,  $1 \rightarrow 2$  Xs. The difference between the most common and least common X mark counts is \_\_\_\_\_.

3. A line plot shows distances walked in miles:  $\frac{1}{8} \rightarrow 1$  X,  $\frac{2}{8} \rightarrow 3$  Xs,  $\frac{3}{8} \rightarrow 5$  Xs,  $\frac{4}{8} \rightarrow 2$  Xs. How many of the 11 walkers walked exactly  $\frac{3}{8}$  mile? Answer: \_\_\_\_\_.

4. A line plot shows distances walked in miles:  $\frac{1}{8} \rightarrow 1$  X,  $\frac{2}{8} \rightarrow 3$  Xs,  $\frac{3}{8} \rightarrow 5$  Xs,  $\frac{4}{8} \rightarrow 2$  Xs. The number of walkers who walked less than  $\frac{3}{8}$  mile is \_\_\_\_\_.

## Part C: Short Answer

## 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 plant heights:  $\frac{1}{4} \rightarrow 3$  Xs,  $\frac{1}{2} \rightarrow 2$  Xs,  $\frac{3}{4} \rightarrow 4$  Xs,  $1 \rightarrow 1$  X. A student says more plants are  $\frac{1}{2}$  foot or shorter than taller. Shorter: 5. Taller: 5.

Rewrite: Plants  $\frac{1}{2}$  foot or shorter:  $\frac{1}{4}(3) + \frac{1}{2}(2) = 5$ . Plants taller:  $\frac{3}{4}(4) + 1(1) = 5$ . The counts are equal, not "more shorter."

2. Fix the sentence:

A line plot shows snowfall in inches:  $\frac{1}{4} \rightarrow 5$  Xs,  $\frac{1}{2} \rightarrow 3$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs. A student says the total snowfall across all days is 10 inches.

Rewrite: The total number of days is 10, but total snowfall is  $(5 \times \frac{1}{4}) + (3 \times \frac{1}{2}) + (2 \times \frac{3}{4}) = \frac{5}{4} + \frac{6}{4} + \frac{6}{4} = \frac{17}{4} = 4 \frac{1}{4}$  inches.

3. Fix the sentence:

A line plot shows trail lengths in miles:  $\frac{1}{8} \rightarrow 2$  Xs,  $\frac{3}{8} \rightarrow 4$  Xs,  $\frac{5}{8} \rightarrow 3$  Xs,  $\frac{7}{8} \rightarrow 1$  X. A student says 6 trails are longer than  $\frac{2}{8}$  mile.

Rewrite: Trails longer than  $\frac{2}{8}$  mile:  $\frac{3}{8}(4) + \frac{5}{8}(3) + \frac{7}{8}(1) = 4 + 3 + 1 = 8$  trails, not 6.

### Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line plot shows hours spent reading:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 7$  Xs,  $\frac{3}{4} \rightarrow 3$  Xs,  $1 \rightarrow 2$  Xs. The number of students who read  $\frac{1}{2}$  hour or more is 12.

2. A line plot shows hours spent reading:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 7$  Xs,  $\frac{3}{4} \rightarrow 3$  Xs,  $1 \rightarrow 2$  Xs. The difference between the most common and least common X mark counts is 5.

3. A line plot shows distances walked in miles:  $\frac{1}{8} \rightarrow 1$  X,  $\frac{2}{8} \rightarrow 3$  Xs,  $\frac{3}{8} \rightarrow 5$  Xs,  $\frac{4}{8} \rightarrow 2$  Xs. How many of the 11 walkers walked exactly  $\frac{3}{8}$  mile? Answer: 5.

4. A line plot shows distances walked in miles:  $\frac{1}{8} \rightarrow 1$  X,  $\frac{2}{8} \rightarrow 3$  Xs,  $\frac{3}{8} \rightarrow 5$  Xs,  $\frac{4}{8} \rightarrow 2$  Xs. The number of walkers who walked less than  $\frac{3}{8}$  mile is 4.

### Part C: Short Answer