



# Line Plots with Fractions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. A gardener records seedling growth in inches:  $\frac{1}{8} \rightarrow 3$  Xs,  $\frac{1}{4} \rightarrow 5$  Xs,  $\frac{3}{8} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 2$  Xs. What is the total growth of all seedlings?

- A)  $3 \frac{7}{8}$  inches
- B)  $4 \frac{1}{8}$  inches
- C)  $3 \frac{5}{8}$  inches
- D) 4 inches

2. A chef measures leftover sauce in cups:  $\frac{1}{4} \rightarrow 6$  Xs,  $\frac{1}{2} \rightarrow 4$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs. She combines all sauce (total = 5 cups) and uses 3 cups. How much sauce remains?

- A) 2 cups
- B) 1 cup
- C)  $1 \frac{1}{2}$  cups
- D)  $\frac{1}{2}$  cup

3. Students tracked rainfall over 15 days:  $0 \rightarrow 3$  Xs,  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 5$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs,  $1 \rightarrow 1$  X. What fraction of the 15 days had  $\frac{1}{2}$  inch or more of rain?

- A)  $\frac{8}{15}$
- B)  $\frac{7}{15}$
- C)  $\frac{5}{15}$
- D)  $\frac{1}{3}$

4. A line plot shows ribbon per gift in yards:  $\frac{1}{4} \rightarrow 3$  Xs,  $\frac{1}{2} \rightarrow 5$  Xs,  $\frac{3}{4} \rightarrow 4$  Xs,  $1 \rightarrow 2$  Xs. Total =  $8 \frac{1}{4}$  yards. Ribbon is sold in 5-yard rolls. How many complete rolls are needed?

- A) 1 roll
- B) 3 rolls
- C) 2 rolls
- D) 4 rolls

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A line plot shows test times in hours:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 8$  Xs,  $\frac{3}{4} \rightarrow 6$  Xs,  $1 \rightarrow 2$  Xs. Total time for all 20 students (write as a mixed number): \_\_\_\_\_ hours.

2. Using the test time data, the number of students who took less than  $\frac{3}{4}$  hour is \_\_\_\_\_.

3. A line plot shows bread weights in pounds:  $\frac{3}{8} \rightarrow 3$  Xs,  $\frac{1}{2} \rightarrow 5$  Xs,  $\frac{5}{8} \rightarrow 4$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs. Total weight of  $\frac{5}{8}$ -pound loaves (write as a mixed number): \_\_\_\_\_ pounds.

4. Using the bread data, total weight of ALL loaves combined (write as a fraction): \_\_\_\_\_.

**Part A: Multiple Choice**

Circle the best answer for each question.

<p><b>1.</b> A gardener records seedling growth in inches: <math>\frac{1}{8} \rightarrow 3</math> Xs, <math>\frac{1}{4} \rightarrow 5</math> Xs, <math>\frac{3}{8} \rightarrow 4</math> Xs, <math>\frac{1}{2} \rightarrow 2</math> Xs. What is the total growth of all seedlings?</p> <p><input type="radio"/> A) <math>3 \frac{7}{8}</math> inches</p> <p><input checked="" type="radio"/> <b>B) <math>4 \frac{1}{8}</math> inches</b></p> <p><input type="radio"/> C) <math>3 \frac{5}{8}</math> inches</p> <p><input type="radio"/> D) 4 inches</p>	<p><b>2.</b> A chef measures leftover sauce in cups: <math>\frac{1}{4} \rightarrow 6</math> Xs, <math>\frac{1}{2} \rightarrow 4</math> Xs, <math>\frac{3}{4} \rightarrow 2</math> Xs. She combines all sauce (total = 5 cups) and uses 3 cups. How much sauce remains?</p> <p><input checked="" type="radio"/> <b>A) 2 cups</b></p> <p><input type="radio"/> B) 1 cup</p> <p><input type="radio"/> C) <math>1 \frac{1}{2}</math> cups</p> <p><input type="radio"/> D) <math>\frac{1}{2}</math> cup</p>
<p><b>3.</b> Students tracked rainfall over 15 days: <math>0 \rightarrow 3</math> Xs, <math>\frac{1}{4} \rightarrow 4</math> Xs, <math>\frac{1}{2} \rightarrow 5</math> Xs, <math>\frac{3}{4} \rightarrow 2</math> Xs, <math>1 \rightarrow 1</math> X. What fraction of the 15 days had <math>\frac{1}{2}</math> inch or more of rain?</p> <p><input checked="" type="radio"/> <b>A) <math>\frac{8}{15}</math></b></p> <p><input type="radio"/> B) <math>\frac{7}{15}</math></p> <p><input type="radio"/> C) <math>\frac{5}{15}</math></p> <p><input type="radio"/> D) <math>\frac{1}{3}</math></p>	<p><b>4.</b> A line plot shows ribbon per gift in yards: <math>\frac{1}{4} \rightarrow 3</math> Xs, <math>\frac{1}{2} \rightarrow 5</math> Xs, <math>\frac{3}{4} \rightarrow 4</math> Xs, <math>1 \rightarrow 2</math> Xs. Total = <math>8 \frac{1}{4}</math> yards. Ribbon is sold in 5-yard rolls. How many complete rolls are needed?</p> <p><input type="radio"/> A) 1 roll</p> <p><input type="radio"/> B) 3 rolls</p> <p><input checked="" type="radio"/> <b>C) 2 rolls</b></p> <p><input type="radio"/> D) 4 rolls</p>

**Part B: Fill in the Blank**

Write the correct answer on each line.

1. A line plot shows test times in hours:  $\frac{1}{4} \rightarrow 4$  Xs,  $\frac{1}{2} \rightarrow 8$  Xs,  $\frac{3}{4} \rightarrow 6$  Xs,  $1 \rightarrow 2$  Xs. Total time for all 20 students (write as a mixed number):  $11 \frac{1}{2}$  hours.
2. Using the test time data, the number of students who took less than  $\frac{3}{4}$  hour is 12.
3. A line plot shows bread weights in pounds:  $\frac{3}{8} \rightarrow 3$  Xs,  $\frac{1}{2} \rightarrow 5$  Xs,  $\frac{5}{8} \rightarrow 4$  Xs,  $\frac{3}{4} \rightarrow 2$  Xs. Total weight of  $\frac{5}{8}$ -pound loaves (write as a mixed number):  $2 \frac{1}{2}$  pounds.
4. Using the bread data, total weight of ALL loaves combined (write as a fraction):  $\frac{61}{8}$ .
5. A line plot shows how far students live from school in miles:  $\frac{1}{4} \rightarrow 5$  Xs,  $\frac{1}{2} \rightarrow 3$  Xs,  $\frac{3}{4} \rightarrow 4$  Xs,  $1 \rightarrow 2$  Xs. If