



Line Plots with Fractions

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. A line plot shows water in bottles (liters): $\frac{1}{8} \rightarrow 3$ Xs, $\frac{1}{4} \rightarrow 5$ Xs, $\frac{3}{8} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 2$ Xs. What is the total water in all bottles?

- A) $4 \frac{3}{8}$ liters
- B) $4 \frac{1}{8}$ liters
- C) $3 \frac{7}{8}$ liters
- D) 14 liters

2. A line plot shows miles walked: $\frac{1}{4} \rightarrow 2$ Xs, $\frac{1}{2} \rightarrow 6$ Xs, $\frac{3}{4} \rightarrow 4$ Xs, $1 \rightarrow 3$ Xs. If the 2 students who walked $\frac{1}{4}$ mile each walk an extra $\frac{1}{4}$ mile, what is the new total miles walked by all students?

- A) $10 \frac{1}{2}$ miles
- B) $9 \frac{3}{4}$ miles
- C) 10 miles
- D) 11 miles

3. A line plot shows worm lengths in inches: $\frac{1}{4} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 3$ Xs, $\frac{3}{4} \rightarrow 5$ Xs, $1 \rightarrow 2$ Xs. How much longer is the total of all $\frac{3}{4}$ -inch worms than the total of all $\frac{1}{2}$ -inch worms?

- A) $2 \frac{1}{4}$ inches
- B) $1 \frac{1}{4}$ inches
- C) 2 inches
- D) $2 \frac{1}{2}$ inches

4. A line plot shows flour used in cups: $\frac{1}{8} \rightarrow 2$ Xs, $\frac{1}{4} \rightarrow 3$ Xs, $\frac{3}{8} \rightarrow 5$ Xs, $\frac{1}{2} \rightarrow 4$ Xs. A baker needs 5 cups total. How much more flour is needed beyond the recipes?

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

Part B: Fill in the Blank

Write the correct answer on each line.

1. A line plot shows homework time in hours: $\frac{1}{4} \rightarrow 3$ Xs, $\frac{1}{2} \rightarrow 7$ Xs, $\frac{3}{4} \rightarrow 4$ Xs, $1 \rightarrow 2$ Xs. Total homework time for all 16 students (write as a mixed number): _____ hours.

2. Using the homework data, the average time per student equals _____ hour. (Write as a fraction.)

3. A line plot shows fish weights in pounds: $\frac{1}{4} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 2$ Xs, $\frac{3}{4} \rightarrow 6$ Xs, $1 \rightarrow 1$ X. Total weight of fish weighing $\frac{1}{2}$ pound or more (write as a mixed number): _____ pounds.

Part A: Multiple Choice

Circle the best answer for each question.

1. A line plot shows water in bottles (liters): $\frac{1}{8} \rightarrow 3$ Xs, $\frac{1}{4} \rightarrow 5$ Xs, $\frac{3}{8} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 2$ Xs. What is the total water in all bottles?

- A) $4 \frac{3}{8}$ liters
- B) $4 \frac{1}{8}$ liters
- C) $3 \frac{7}{8}$ liters
- D) 14 liters

2. A line plot shows miles walked: $\frac{1}{4} \rightarrow 2$ Xs, $\frac{1}{2} \rightarrow 6$ Xs, $\frac{3}{4} \rightarrow 4$ Xs, $1 \rightarrow 3$ Xs. If the 2 students who walked $\frac{1}{4}$ mile each walk an extra $\frac{1}{4}$ mile, what is the new total miles walked by all students?

- A) $10 \frac{1}{2}$ miles
- B) $9 \frac{3}{4}$ miles
- C) 10 miles
- D) 11 miles

3. A line plot shows worm lengths in inches: $\frac{1}{4} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 3$ Xs, $\frac{3}{4} \rightarrow 5$ Xs, $1 \rightarrow 2$ Xs. How much longer is the total of all $\frac{3}{4}$ -inch worms than the total of all $\frac{1}{2}$ -inch worms?

- A) $2 \frac{1}{4}$ inches
- B) $1 \frac{1}{4}$ inches
- C) 2 inches
- D) $2 \frac{1}{2}$ inches

4. A line plot shows flour used in cups: $\frac{1}{8} \rightarrow 2$ Xs, $\frac{1}{4} \rightarrow 3$ Xs, $\frac{3}{8} \rightarrow 5$ Xs, $\frac{1}{2} \rightarrow 4$ Xs. A baker needs 5 cups total. How much more flour is needed beyond the recipes?

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

Part B: Fill in the Blank

Write the correct answer on each line.

1. A line plot shows homework time in hours: $\frac{1}{4} \rightarrow 3$ Xs, $\frac{1}{2} \rightarrow 7$ Xs, $\frac{3}{4} \rightarrow 4$ Xs, $1 \rightarrow 2$ Xs. Total homework time for all 16 students (write as a mixed number): $9 \frac{1}{4}$ hours.

2. Using the homework data, the average time per student equals $\frac{37}{64}$ hour. (Write as a fraction.)

3. A line plot shows fish weights in pounds: $\frac{1}{4} \rightarrow 4$ Xs, $\frac{1}{2} \rightarrow 2$ Xs, $\frac{3}{4} \rightarrow 6$ Xs, $1 \rightarrow 1$ X. Total weight of fish weighing $\frac{1}{2}$ pound or more (write as a mixed number): $6 \frac{1}{2}$ pounds.

4. Using the fish data, the difference between the total weight of the $\frac{3}{4}$ -pound fish and the total weight