Line Plots

Name: _____ Date: _____ Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. A line plot shows trail distances hiked in miles: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→6 Xs, 1→2 Xs. What is the total distance hiked by all hikers?

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

2. A line plot shows paint used per project in cups: $\frac{1}{8}$→4 Xs, $\frac{1}{4}$→6 Xs, $\frac{3}{8}$→3 Xs, $\frac{1}{2}$→2 Xs. The total paint for all projects is $4\frac{1}{8}$ cups. If paint comes in 2-cup bottles, how many bottles are needed?

- A) 2 bottles
- B) 4 bottles
- C) 3 bottles
- D) 1 bottle

3. A line plot shows stone weights in pounds: $\frac{1}{4}$→5 Xs, $\frac{1}{2}$→4 Xs, $\frac{3}{4}$→3 Xs, 1→2 Xs. What is the difference between the total weight of all $\frac{3}{4}$-pound stones and the total weight of all $\frac{1}{4}$-pound stones?

- A) $1\ \frac{1}{2}$ pounds
- B) 1 pound
- C) $\frac{3}{4}$ pound
- D) 2 pounds

4. A line plot shows liquid volumes in liters: $\frac{1}{8}$→3 Xs, $\frac{3}{8}$→5 Xs, $\frac{5}{8}$→4 Xs, $\frac{7}{8}$→2 Xs. What fraction of the 14 containers hold $\frac{5}{8}$ liter or more?

- A) $\frac{6}{14}$
- B) $\frac{5}{14}$
- C) $\frac{4}{14}$
- D) $\frac{8}{14}$

Part B: Fill in the Blank

Write the correct answer on each line.

1. A line plot shows reading times in hours: $\frac{1}{4}$→6 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→4 Xs, 1→3 Xs. Total reading time for all 18 students (write as a mixed number): _____ hours.

2. Using the reading data, the total time for students who read $\frac{1}{2}$ hour or less is _____ hours.

3. A line plot shows tape lengths in meters: $\frac{3}{8}$→5 Xs, $\frac{1}{2}$→3 Xs, $\frac{5}{8}$→4 Xs, $\frac{3}{4}$→2 Xs. Total length of the $\frac{5}{8}$-meter tapes (write as a mixed number): _____ meters.

Answer Key · Line Plots · Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. A line plot shows trail distances hiked in miles: $\frac{1}{4}$→3 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→6 Xs, 1→2 Xs. What is the total distance hiked by all hikers?

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

2. A line plot shows paint used per project in cups: $\frac{1}{8}$→4 Xs, $\frac{1}{4}$→6 Xs, $\frac{3}{8}$→3 Xs, $\frac{1}{2}$→2 Xs. The total paint for all projects is $4\frac{1}{8}$ cups. If paint comes in 2-cup bottles, how many bottles are needed?

- ○ A) 2 bottles
- ○ B) 4 bottles
- ● **C) 3 bottles**
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3. A line plot shows stone weights in pounds: $\frac{1}{4}$→5 Xs, $\frac{1}{2}$→4 Xs, $\frac{3}{4}$→3 Xs, 1→2 Xs. What is the difference between the total weight of all $\frac{3}{4}$-pound stones and the total weight of all $\frac{1}{4}$-pound stones?

- ○ A) $1\ \frac{1}{2}$ pounds
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Part B: Fill in the Blank

Write the correct answer on each line.

1. A line plot shows reading times in hours: $\frac{1}{4}$→6 Xs, $\frac{1}{2}$→5 Xs, $\frac{3}{4}$→4 Xs, 1→3 Xs. Total reading time for all 18 students (write as a mixed number): **10** hours.

2. Using the reading data, the total time for students who read $\frac{1}{2}$ hour or less is **4** hours.

3. A line plot shows tape lengths in meters: $\frac{3}{8}$→5 Xs, $\frac{1}{2}$→3 Xs, $\frac{5}{8}$→4 Xs, $\frac{3}{4}$→2 Xs. Total length of the $\frac{5}{8}$-meter tapes (write as a mixed number): **$2\frac{1}{2}$** meters.

4. Using the tape data, total length of ALL tapes combined (write as a mixed number): **$7\frac{3}{8}$** meters.