

# Pencil Lengths

## Home Link 7-13

NAME \_\_\_\_\_

DATE \_\_\_\_\_

TIME \_\_\_\_\_

At the beginning of the year Mrs. Kerry gave each student in her class a new pencil with “Welcome to 4th Grade” written on it. A month later the class measured their pencils to the nearest  $\frac{1}{8}$  inch.

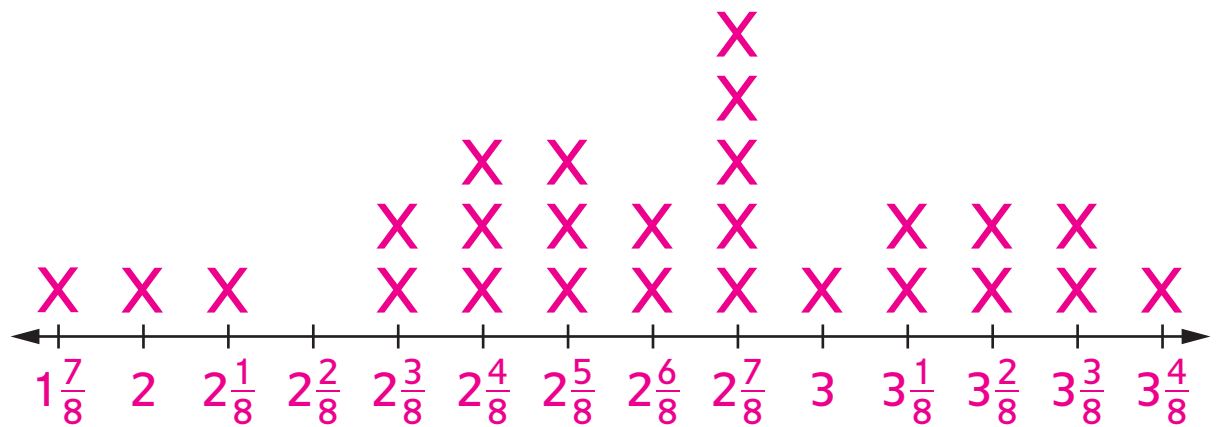


### Pencil Lengths to the Nearest $\frac{1}{8}$ inch

|                |                |                |                |                |                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| $2\frac{1}{8}$ | $3\frac{1}{8}$ | $2\frac{7}{8}$ | $2\frac{4}{8}$ | $3\frac{3}{8}$ | $2\frac{7}{8}$ | 3              | $2\frac{5}{8}$ | $2\frac{5}{8}$ | $2\frac{7}{8}$ | $3\frac{3}{8}$ | $2\frac{6}{8}$ | $2\frac{4}{8}$ |
| $2\frac{3}{8}$ | $2\frac{7}{8}$ | $1\frac{7}{8}$ | $3\frac{2}{8}$ | $2\frac{7}{8}$ | $3\frac{4}{8}$ | $2\frac{6}{8}$ | $2\frac{3}{8}$ | $3\frac{1}{8}$ | 2              | $2\frac{4}{8}$ | $2\frac{5}{8}$ | $3\frac{2}{8}$ |

Plot the data set on the line plot.

Title: Sample answer: Pencil Lengths (to the nearest  $\frac{1}{8}$  inch)



Sample answer: Length (inches)

# Pencil Lengths

(continued)

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Use the completed line plot to answer these questions.

- ① How many students have a pencil that is shorter than  $2\frac{7}{8}$  inches?  
13 students
- ② What is the most common pencil length?  $2\frac{7}{8}$  inches
- ③ a. How many pencils are less than  $2\frac{2}{8}$  inches long? 3 pencils  
b. What is their combined length? 6 inches
- ④ a. How many pencils are between  $2\frac{7}{8}$  and  $3\frac{2}{8}$  inches long? 3 pencils  
b. What is their combined length?  $9\frac{2}{8}$  inches
- ⑤ a. How long is the longest pencil?  $3\frac{4}{8}$  inches  
b. How long is the shortest pencil?  $1\frac{7}{8}$  inches  
c. What is the combined length of the longest and shortest pencils?  $4\frac{11}{8}$ , or  $5\frac{3}{8}$  inches  
d. What is the difference in length of the longest and shortest pencils?  
 $1\frac{5}{8}$  inches

## Practice

⑥  $2\frac{1}{4} + 5\frac{2}{4} = \underline{7\frac{3}{4}}$

⑦  $8\frac{5}{10} + 3\frac{7}{10} = \underline{12\frac{2}{10}}$

⑧  $3\frac{7}{8} - 1\frac{3}{8} = \underline{2\frac{4}{8}}$

⑨  $7\frac{41}{100} - 3\frac{51}{100} = \underline{3\frac{90}{100}}$