

# Pencil Lengths

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: \_\_\_\_\_



\_\_\_\_\_

# Pencil Lengths

(continued)

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NAME \_\_\_\_\_

DATE \_\_\_\_\_

TIME \_\_\_\_\_



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?  
\_\_\_\_\_ students
- ② What is the most common pencil length? \_\_\_\_\_ inches
- ③ a. How many pencils are less than  $2\frac{2}{8}$  inches long? \_\_\_\_\_ pencils  
b. What is their combined length? \_\_\_\_\_ inches
- ④ a. How many pencils are between  $2\frac{7}{8}$  and  $3\frac{2}{8}$  inches long? \_\_\_\_\_ pencils  
b. What is their combined length? \_\_\_\_\_ inches
- ⑤ a. How long is the longest pencil? \_\_\_\_\_ inches  
b. How long is the shortest pencil? \_\_\_\_\_ inches  
c. What is the combined length of the longest and shortest pencils? \_\_\_\_\_ inches  
d. What is the difference in length of the longest and shortest pencils?  
\_\_\_\_\_ inches

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## Practice

⑥  $2\frac{1}{4} + 5\frac{2}{4} =$  \_\_\_\_\_

⑦  $8\frac{5}{10} + 3\frac{7}{10} =$  \_\_\_\_\_

⑧  $3\frac{7}{8} - 1\frac{3}{8} =$  \_\_\_\_\_

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