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: _____

_____

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Pencil Lengths

(continued)

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

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) $7\frac{41}{100} - 3\frac{51}{100} =$ _____