ALBERT

Name _____ Date _____

Line Plots Worksheet

Grade 3 · Common Core 3.MD.B.4

> Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units—whole numbers, halves, or quarters.

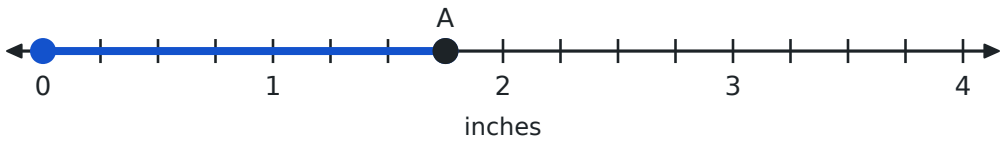
Practice

Builds the skill step by step.

1. How long is the strip, to the nearest half inch?



2. How long is the strip, to the nearest fourth of an inch?



3. A ruler is marked in fourths of an inch. How many equal spaces are between 0 and 1?

   A. 2

   B. 3

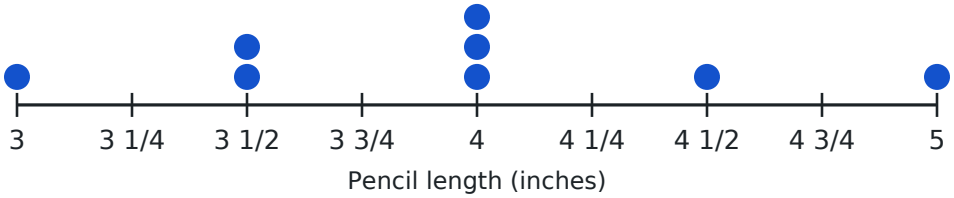
   C. 4

   D. 8

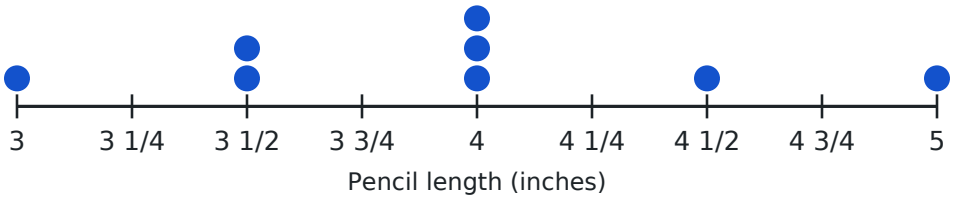
4. How long is the strip, to the nearest fourth of an inch?



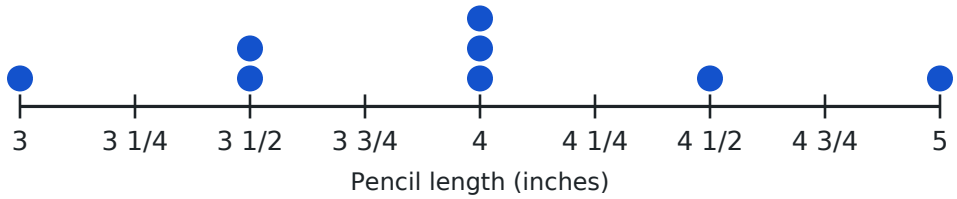
5. The line plot shows the lengths of some pencils. How many pencils are 4 inches long?



6. The line plot shows the lengths of some pencils. How many pencils were measured in all?



7. The line plot shows the lengths of some pencils. Which length has the most pencils?



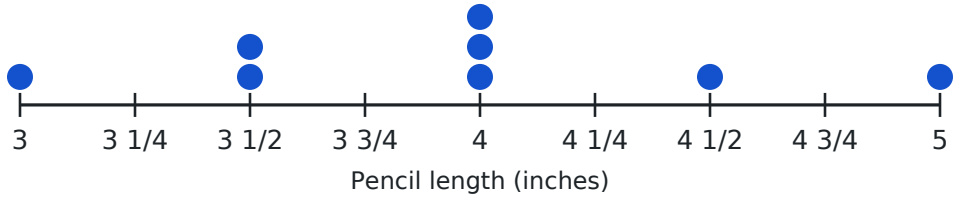
A. $3\frac{1}{2}$ inches

B. 4 inches

C. $4\frac{1}{2}$ inches

D. 5 inches

8. The line plot shows the lengths of some pencils. How many pencils are longer than 4 inches?



9. Kai measured 5 leaves. Their lengths were 2, $2\frac{1}{2}$, 3, $2\frac{1}{2}$ and $2\frac{1}{2}$ inches. On a line plot, how many dots go above $2\frac{1}{2}$?

10. Lengths were measured to the nearest half inch. Which numbers make the best scale for the line plot?

A. 0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2

B. 0, 1, 2, 3, 4

C. 0, 5, 10, 15, 20

D. 0, 10, 20, 30, 40

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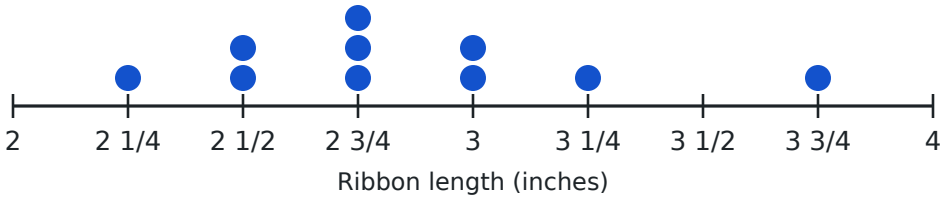
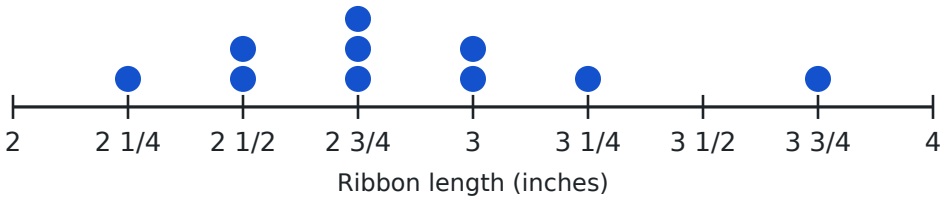
On Level

Grade-level practice.

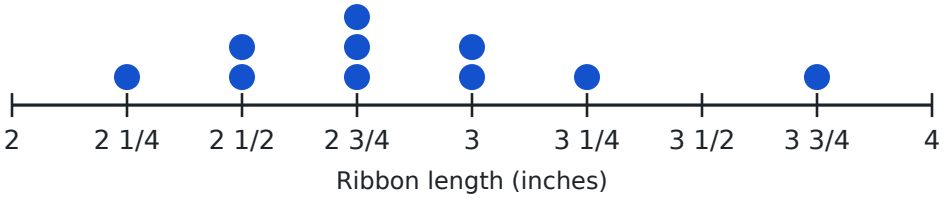
1. The line plot shows the lengths of some ribbons. How many ribbons are $2\frac{3}{4}$ inches long?



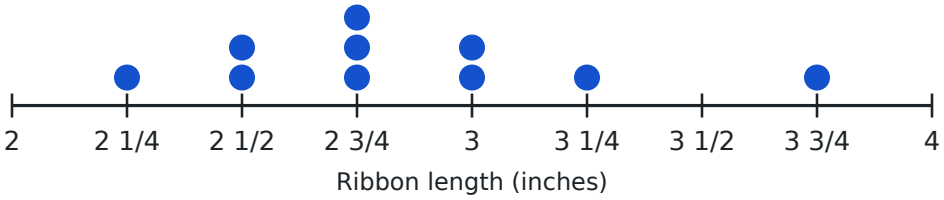
2. The line plot shows the lengths of some ribbons. How many ribbons are shorter than 3 inches?



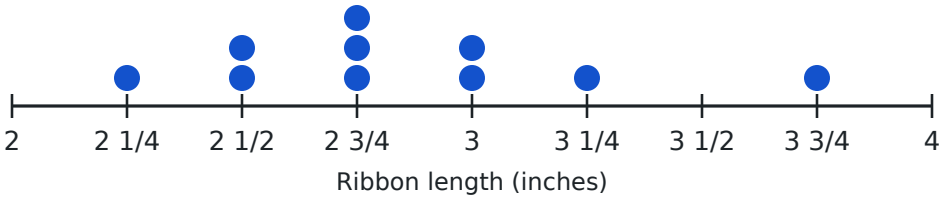
3. The line plot shows the lengths of some ribbons. How many more ribbons are $2\frac{3}{4}$ inches long than $3\frac{1}{4}$ inches long?



4. The line plot shows the lengths of some ribbons. How long is the longest ribbon?



5. The line plot shows the lengths of some ribbons. Which length has no ribbons?



A. $2\frac{1}{4}$ inches

B. $2\frac{1}{2}$ inches

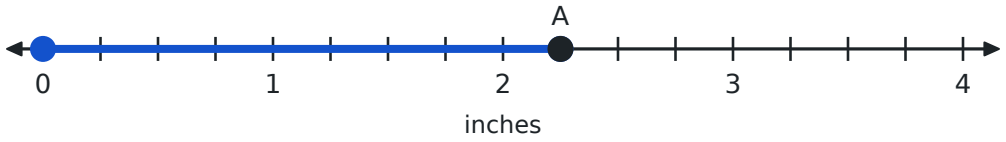
C. 3 inches

D. $3\frac{1}{2}$ inches

6. How long is the strip, to the nearest fourth of an inch?



7. How long is the strip, to the nearest fourth of an inch?



8. Nia measured 6 shells. Their lengths were 1, $1\frac{1}{4}$, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 and $1\frac{1}{4}$ inches. On her line plot, how many dots go above $1\frac{1}{4}$?

9. Nia's shell lengths were 1, $1\frac{1}{4}$, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 and $1\frac{1}{4}$ inches. Which scale is best for her line plot?

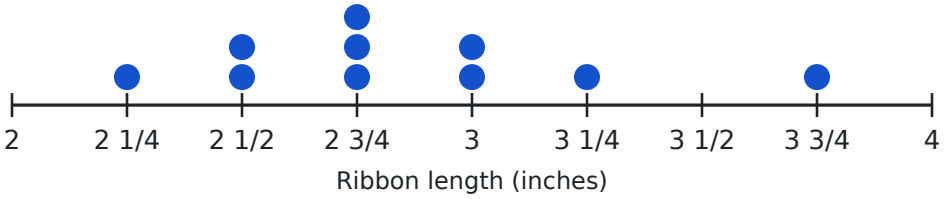
   A. From 0 to 1, marked in halves

   B. From 2 to 3, marked in fourths

   C. From 0 to 10, marked in wholes

   D. From 1 to 2, marked in fourths

10. The line plot shows the lengths of some ribbons. How many ribbons are longer than $2\frac{1}{2}$ inches but shorter than $3\frac{1}{4}$ inches?



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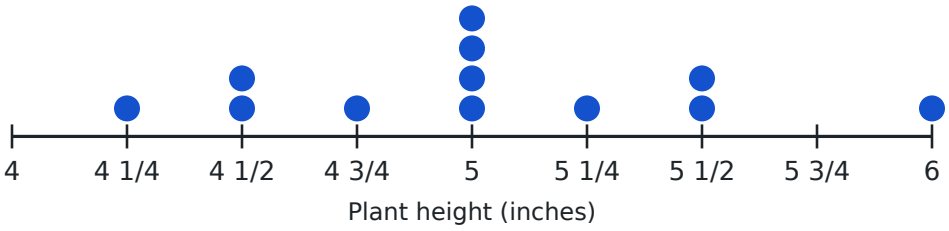
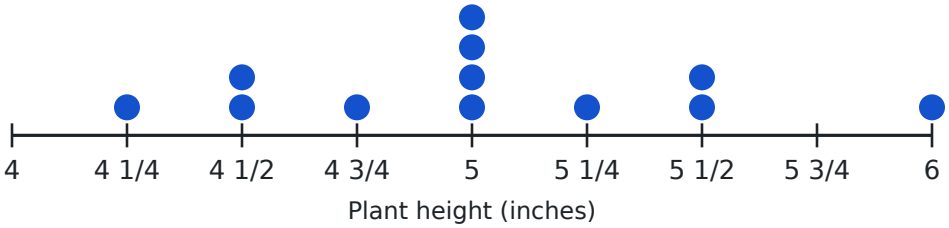
Challenge

Multi-step and word problems that stretch it.

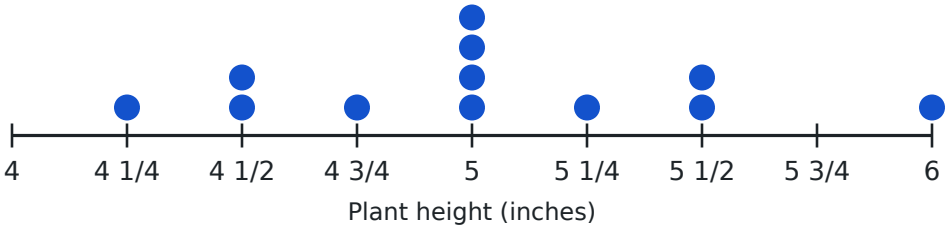
1. The line plot shows the heights of some bean plants. How many plants were measured?



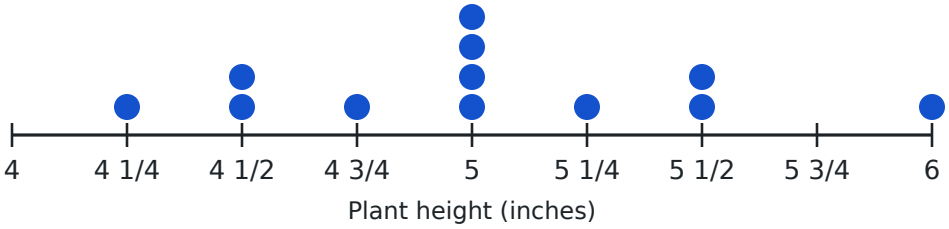
2. The line plot shows the heights of some bean plants. How many plants are 5 inches tall or taller?



3. The line plot shows the heights of some bean plants. How many more plants are 5 inches tall than $4\frac{1}{2}$ inches tall?



4. The line plot shows the heights of some bean plants. Ana counts the dots above $5\frac{1}{2}$ and says, "The plants are 2 inches tall." What is her mistake?



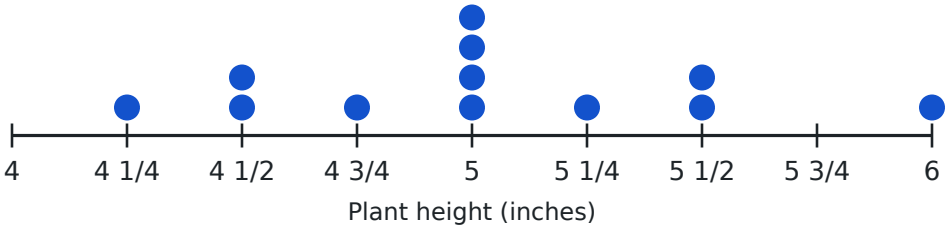
A. Those plants are $2\frac{1}{2}$ inches tall.

B. There is no mistake.

C. The 2 tells how many plants there are. Those plants are $5\frac{1}{2}$ inches tall.

D. She should count all 12 dots instead.

5. The line plot shows the heights of some bean plants. Three more plants are measured: 5, 5 $\frac{1}{2}$ and 5 inches. After they are added, how many dots are above 5?



6. How long is the strip, to the nearest fourth of an inch?



7. Jay's line plot scale is marked only at 1, 2, 3 and 4. His data has lengths like $2\frac{1}{4}$ and $2\frac{3}{4}$ inches. What should he change?

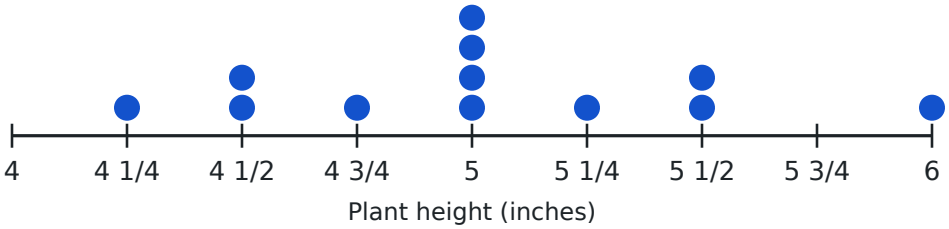
   A. Leave those lengths off the plot.

   B. Mark the scale in fourths of an inch.

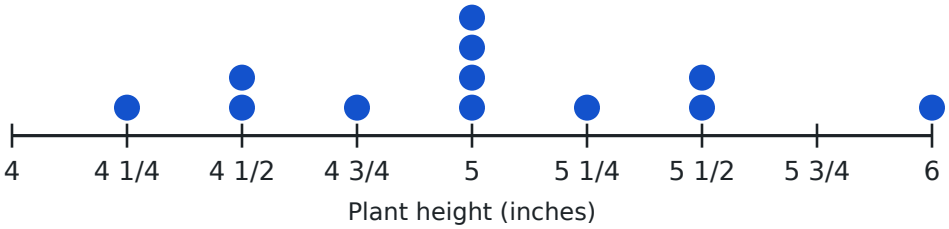
   C. Mark the scale by tens.

   D. Change every length to 2 inches.

8. The line plot shows the heights of some bean plants. How many plants are shorter than 5 inches?



9. The line plot shows the heights of some bean plants. How many more plants are 5 inches or taller than are shorter than 5 inches?



10. Lengths measured: $1\frac{1}{2}$, 2, $1\frac{1}{2}$, $2\frac{1}{2}$, 2, $1\frac{1}{2}$ and 3 inches. Which length will have the most dots on a line plot, and how many dots? Write the length, then the number of dots.