

Grade 4 - Line Plots with Fractions - Test

Common Core 4.MD.B.4 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

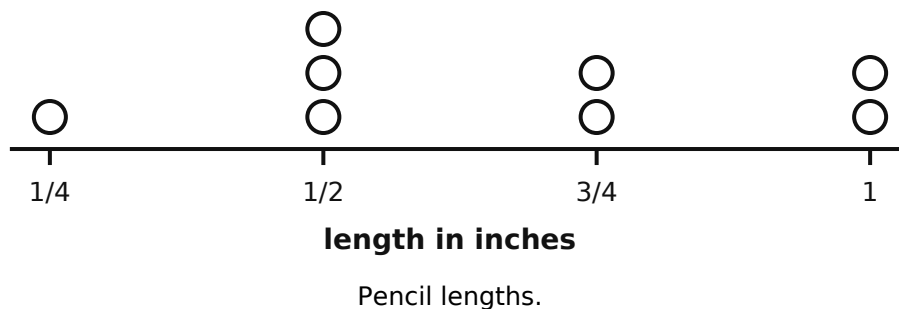
This test has 8 questions worth 20 points. Allow 45 minutes. Show your work for every question and write the unit with each answer. Write fractions greater than 1 as mixed numbers where it makes sense.

About this test

- Grade: Grade 4
- Chapter: Line Plots with Fractions
- Standards: 4.MD.B.4
- Time: 45 minutes
- Total: 20 points

Question 1 - Reading a line plot [2 pts]

The line plot shows the lengths of pencils in inches.



- How many pencils were measured? (1 point)
- How many pencils are longer than $\frac{1}{2}$ inch? (1 point)

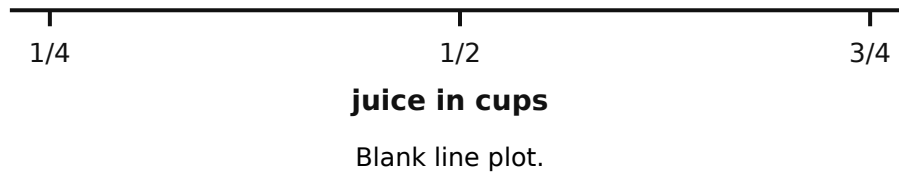
Question 2 - Longest and shortest [2 pts]

Use the line plot in Question 1.

- Which length is the most common? (1 point)
- How much longer is the longest pencil than the shortest pencil? (1 point)

Question 3 - Make a line plot [2 pts]

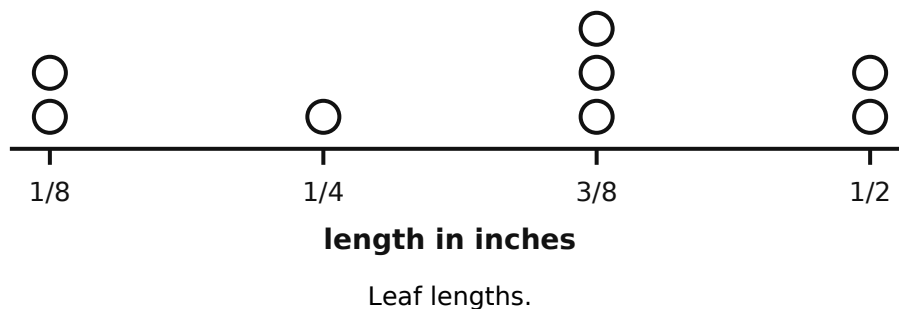
Sofia poured 7 glasses of juice (in cups): $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{2}, \frac{1}{4}, \frac{1}{2}, \frac{1}{4}$. Complete the line plot by drawing a dot for each glass.



(2 points)

Question 4 - Leaf lengths in eighths [3 pts]

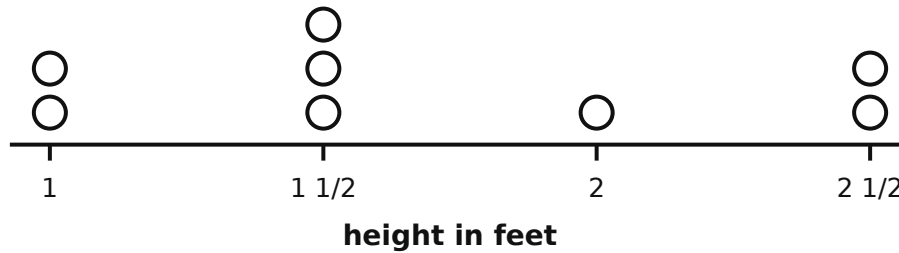
The line plot shows 8 leaves measured in inches.



- Find the total length of the leaves that measure $\frac{3}{8}$ inch. (1 point)
- How many leaves are shorter than $\frac{1}{2}$ inch? (1 point)
- How much longer is the longest leaf than the shortest? (1 point)

Question 5 - Plant heights in halves [3 pts]

The line plot shows the heights of 8 plants in feet.



Plant heights.

- How many plants are taller than 1 foot? (1 point)
- Find the total height of the plants that are $1\frac{1}{2}$ feet tall. (1 point)
- How much taller is the tallest plant than the shortest? (1 point)

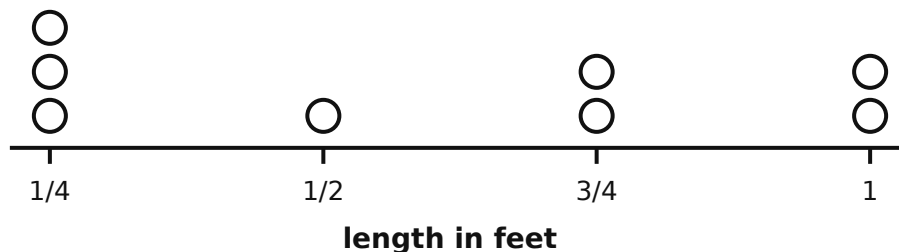
Question 6 - Rainfall total [3 pts]

Diego measured rain on 6 days, in inches: $\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{2}, \frac{1}{4}$.

- Find the total rainfall. (2 points)
- How much more rain fell on the rainiest day than on the driest day? (1 point)

Question 7 - Ribbon pieces [3 pts]

Noah cut ribbon pieces for a craft table. The plot shows their lengths in feet.



Ribbon pieces.

- a. Find the total length of all the ribbon. (2 points)
- b. He needs 6 feet in all. How many more feet does he need? (1 point)

Question 8 - Two columns [2 pts]

A line plot has 3 dots at $\frac{1}{2}$ foot and 2 dots at 1 foot. Find the total of all five measurements. (2 points)