

Luna's Space Adventure

Grade 4 · Line plots with fractions · 4.MD.B.4

Name _____

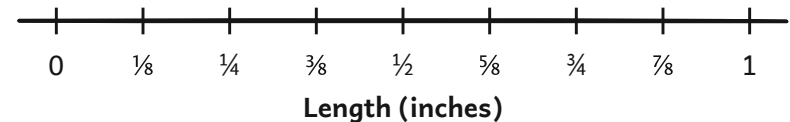
Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Ribbon lengths The class cut ribbons (in inches). Plot each one.

$\frac{1}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{7}{8}$, 1

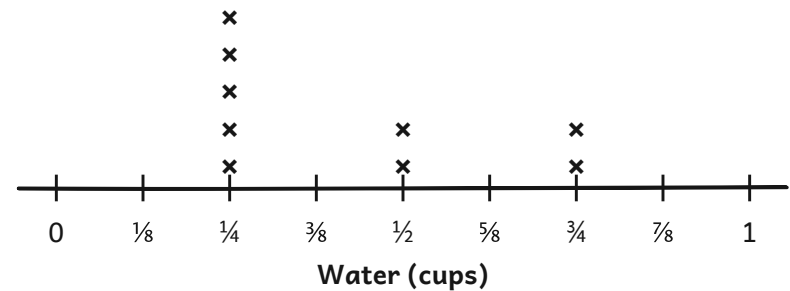


How many ribbons are $\frac{1}{2}$ inch? _____

Longest minus shortest? _____

How many ribbons? _____

Water in each cup Each X is one cup (in cups of water).



How many cups have $\frac{1}{4}$ cup? _____

Total water in the $\frac{1}{2}$ -cup cups? _____

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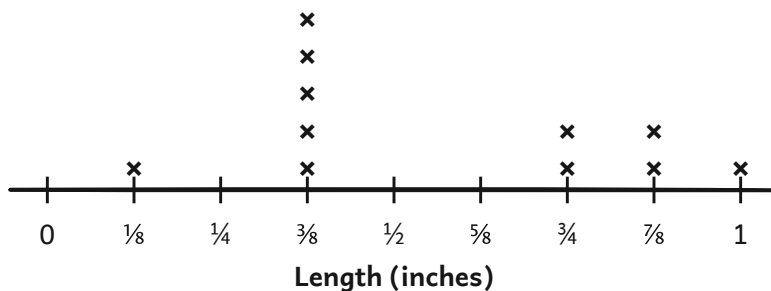
ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Ribbon lengths The class cut ribbons (in inches). Plot each one.

$\frac{1}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{7}{8}$, 1



How many ribbons are $\frac{1}{2}$ inch?

0

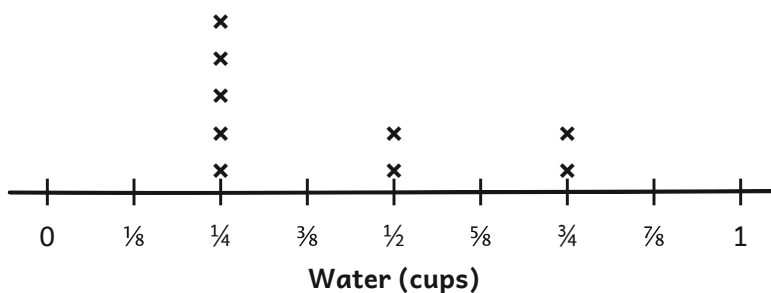
Longest minus shortest?

$\frac{7}{8}$ in

How many ribbons?

11

Water in each cup Each X is one cup (in cups of water).



How many cups have $\frac{1}{4}$ cup?

5

Total water in the $\frac{1}{2}$ -cup cups?

1 cups

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GUIDE

1 What this sheet practises

Making a line plot of measurements in halves, quarters and eighths of an inch, then using it to answer questions.

2 A problem from the sheet, worked out

Ribbon lengths The class cut ribbons (in inches). Plot each one.

$\frac{1}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{7}{8}$, 1

How many ribbons are $\frac{1}{2}$ inch?

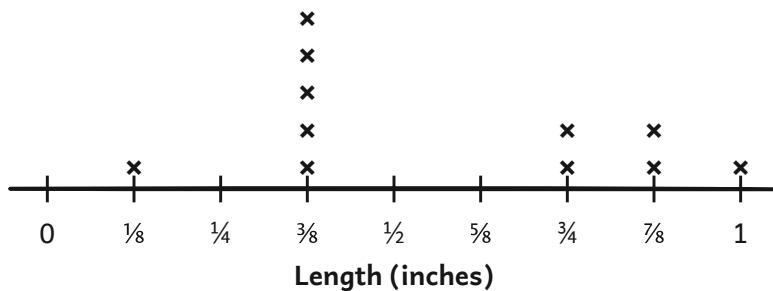
0

Longest minus shortest?

$\frac{7}{8}$ in

How many ribbons?

11



How: Put an X above the matching mark for each measurement. Count X's to answer how-many questions. For longest minus shortest, subtract the two fractions.

3 Words to know

line plot a number line with an X for each measurement

data the measurements you collect

eighth inch one of 8 equal parts of an inch

difference how much longer one is than another

4 Watch for

- Putting an X on the wrong mark, like $\frac{3}{8}$ on $\frac{3}{4}$.
- Missing a measurement, or plotting one twice.
- Subtracting both tops and bottoms when finding longest minus shortest.

5 Where it fits

BEFORE

3.MD.B.4

Measure to the nearest half or quarter inch and make a line plot.

THIS SHEET

4.MD.B.4

Make line plots with fractional measurements and use them to solve problems.

NEXT

5.MD.B.2

Make line plots with fractional measurements and use them to solve problems.

6 Helping at home

Measure a few pencils or crayons to the nearest eighth inch, then plot them together on a line drawn on paper.