

Luna's Space Adventure

Grade 5 · Line plots and sharing · 5.MD.B.2

Name _____

Date _____



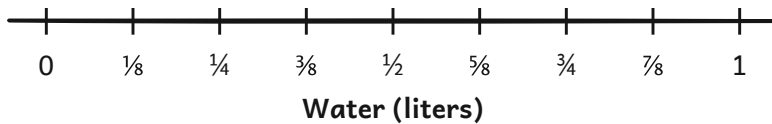
Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Beakers of water Each X is one beaker (liters). Plot the data first.

$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$, 1, 1, 1

Total water in all the beakers? _____

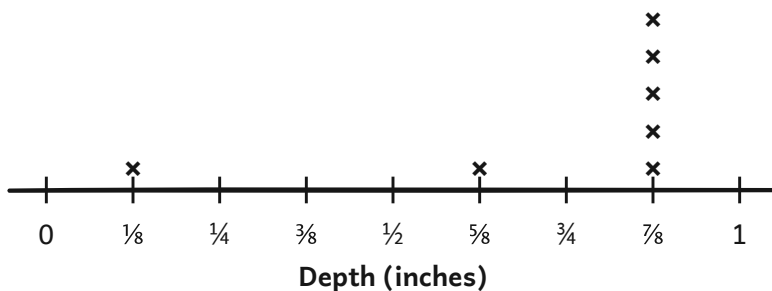
Shared equally among 8 beakers, each gets? _____



Seeds planted Each X is one seed, planted this many inches deep.

How many seeds? _____

Total depth of the $\frac{3}{8}$ -inch seeds? _____



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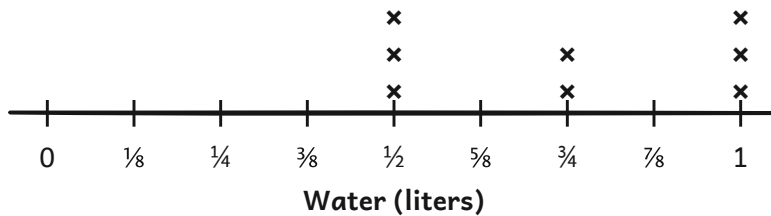
ANSWER KEY



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

Beakers of water Each X is one beaker (liters). Plot the data first.

$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$, 1, 1, 1



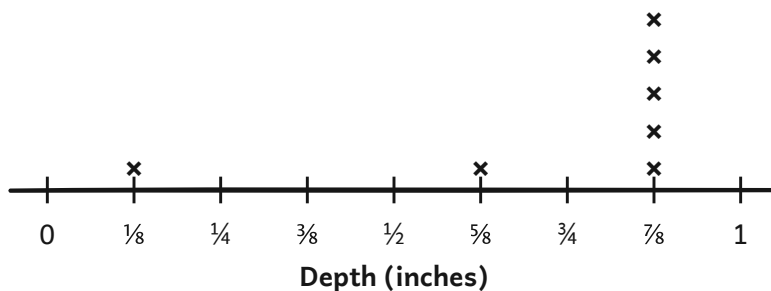
Total water in all the beakers?

6 1/4 L

Shared equally among 8 beakers, each gets?

3/4 L

Seeds planted Each X is one seed, planted this many inches deep.



How many seeds?

7

Total depth of the $\frac{3}{8}$ -inch seeds?

0 in

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GUIDE

① What this sheet practises

Making line plots of measurements in eighths, then using them to find a total and to share that total out equally.

② A problem from the sheet, worked out

Beakers of water Each X is one beaker (liters). Plot the data first.

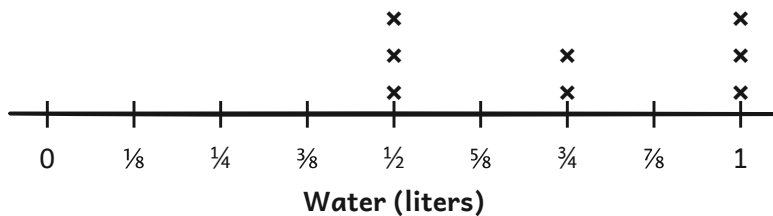
$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$, 1, 1, 1

Total water in all the beakers?

6/1 L

Shared equally among 8 beakers, each gets?

3/4 L



How: Put one X above the matching mark for each measurement. For the total, multiply each value by its number of Xs and add. To share it equally, divide the total by how many.

③ Words to know

line plot a number line with an X for each piece of data

eighth one of 8 equal parts: $\frac{1}{8}$

data the measurements collected

share equally give each the same amount

④ Watch for

- Counting the Xs when the question asks for the total amount.
- Adding the bottoms too: $\frac{3}{8} + \frac{3}{8}$ is $\frac{6}{8}$, not $\frac{6}{16}$.
- Putting an X on the wrong mark, like $\frac{3}{8}$ on the $\frac{3}{4}$ mark.

⑤ Where it fits

BEFORE

4.MD.B.4

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

THIS SHEET

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 of an inch and make a line plot. How long would they be laid end to end?