

Grade 5 - Line Plots and Data - Worksheet

Common Core 5.MD.B.2 · maths-pdf.fr/en/

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

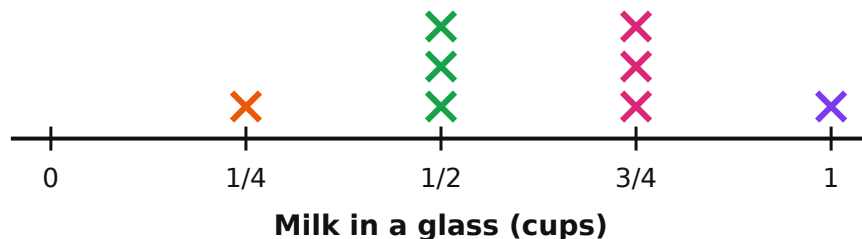
This worksheet has 20 problems on line plots with fractions (5.MD.B.2). You will read plots marked in halves, fourths and eighths, find totals and differences, and share amounts equally.

Early problems ask you to read a plot. Later problems add and subtract fractions or divide a total among containers. The last six are word problems with several steps. Show your work and include units.

Grade 5 · Common Core State Standards: **5.MD.B.2**

Exercise 1 - Count the glasses

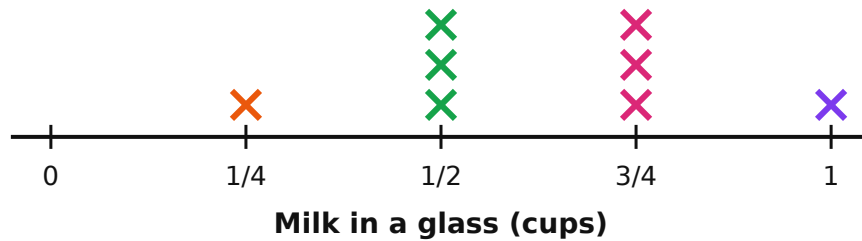
Solve. The line plot shows the amount of milk, in cups, in 8 glasses. How many glasses are shown?



Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 2 - Glasses with one half cup

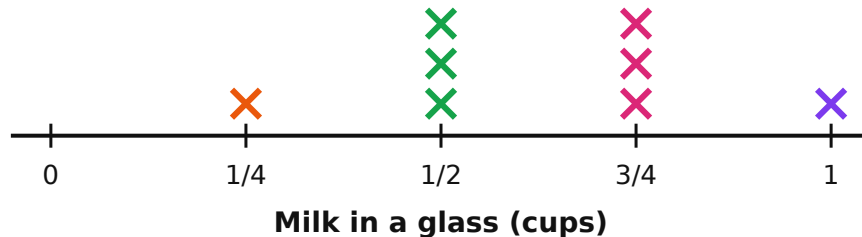
Solve. The line plot shows the amount of milk, in cups, in 8 glasses. How many glasses have exactly $\frac{1}{2}$ cup?



Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 3 - More than one half cup

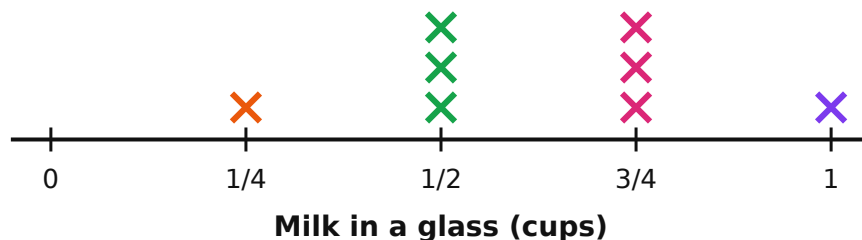
Solve. The line plot shows the amount of milk, in cups, in 8 glasses. How many glasses have more than $\frac{1}{2}$ cup?



Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 4 - Greatest minus least

Solve. The line plot shows the amount of milk, in cups, in 8 glasses. How much more milk is in the fullest glass than in the emptiest glass?

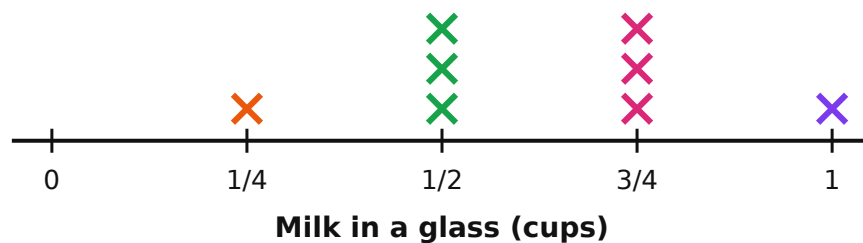


Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 5 - Total milk

Solve. The line plot shows the amount of milk, in cups, in 8 glasses. Find the total amount of

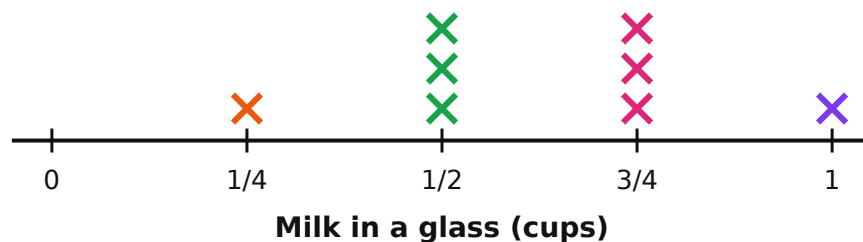
milk in all 8 glasses.



Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 6 - Milk shared equally

Solve. The line plot shows the amount of milk, in cups, in 8 glasses. Suppose all the milk is poured together and shared equally among the 8 glasses. How much milk is in each glass?



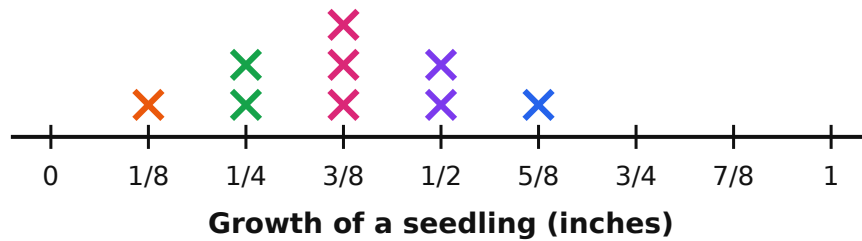
Line plot. Each X is one measurement. Label: Milk in a glass (cups).

Exercise 7 - Make a line plot

Solve. Maya measured 6 ribbons in yards: $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{2}, \frac{1}{4}, \frac{1}{2}$. Draw a number line from 0 to 1 marked in fourths and plot the data. How many X's go above each mark?

Exercise 8 - Seedlings taller than three eighths

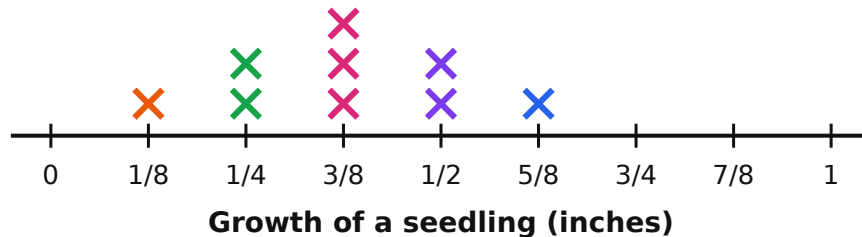
Solve. The line plot shows how much 9 seedlings grew, in inches. How many seedlings grew more than $\frac{3}{8}$ inch?



Line plot. Each X is one measurement. Label: Growth of a seedling (inches).

Exercise 9 - Total growth

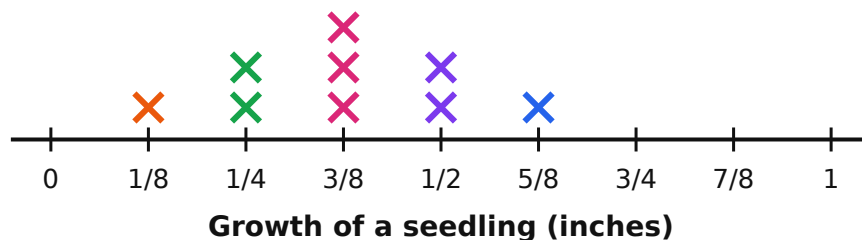
Solve. The line plot shows how much 9 seedlings grew, in inches. Find the total growth of all 9 seedlings.



Line plot. Each X is one measurement. Label: Growth of a seedling (inches).

Exercise 10 - Difference in growth

Solve. The line plot shows how much 9 seedlings grew, in inches. How much more did the tallest seedling grow than the shortest?

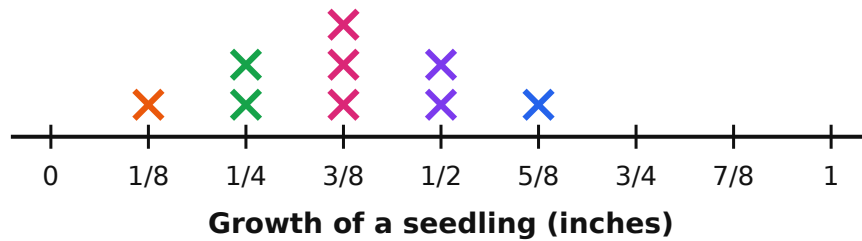


Line plot. Each X is one measurement. Label: Growth of a seedling (inches).

Exercise 11 - At least one half inch

Solve. The line plot shows how much 9 seedlings grew, in inches. How many seedlings grew at

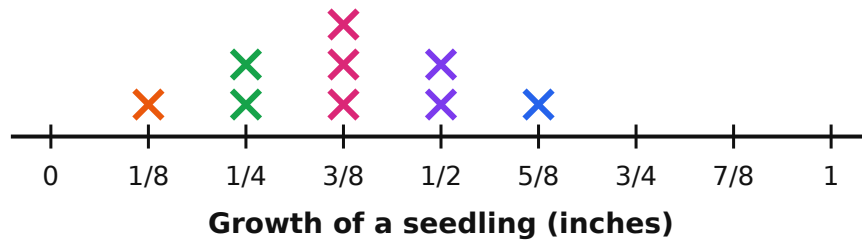
least $\frac{1}{2}$ inch?



Line plot. Each X is one measurement. Label: Growth of a seedling (inches).

Exercise 12 - Short seedlings

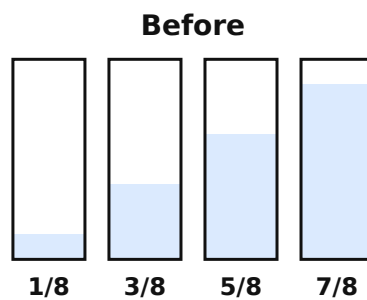
Solve. The line plot shows how much 9 seedlings grew, in inches. Find the total growth of the seedlings that grew less than $\frac{3}{8}$ inch.



Line plot. Each X is one measurement. Label: Growth of a seedling (inches).

Exercise 13 - Level the trays

Solve. Four trays hold $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$ pound of seeds. The seeds are poured together and shared equally among the 4 trays. How much does each tray hold?



Each tall box holds 1 pound when full.

Exercise 14 - Trail mix swap

Solve. Maya has $\frac{1}{2}$ pound of trail mix, Liam has $\frac{3}{4}$ pound and Priya has $\frac{1}{4}$ pound. They pool it and share equally. How much does each friend get, and how much does Liam give away?

Exercise 15 - Apples at the farmers market

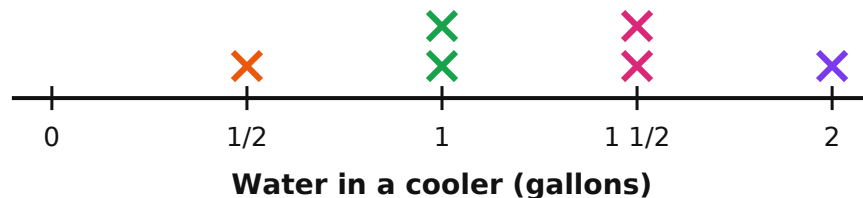
Solve. Diego weighed 10 bags of apples, in pounds, for the farmers market. (a) How much heavier is the heaviest bag than the lightest? (b) What is the total weight of the apples? (c) He sells the apples for \$2 a pound. How much money does he make?



Line plot. Each X is one measurement. Label: Weight of a bag (pounds).

Exercise 16 - Water coolers

Solve. A team has 6 coolers with different amounts of water, in gallons. The coaches pour all the water together and share it equally among the 6 coolers. How much water is in each cooler after sharing?



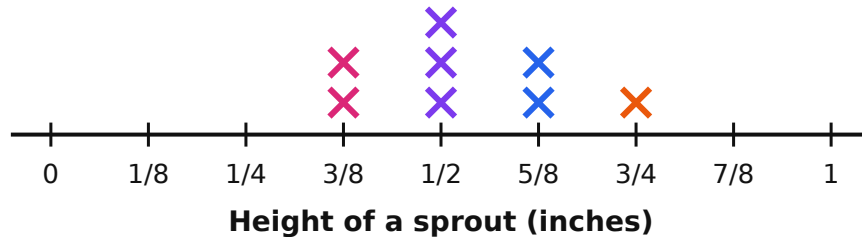
Line plot. Each X is one measurement. Label: Water in a cooler (gallons).

Exercise 17 - Pitchers of lemonade

Solve. Four pitchers hold $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$ and 1 quart of lemonade. Aisha pours everything together and refills the pitchers so each holds the same amount. How much is in each pitcher?

Exercise 18 - Bean sprouts

Solve. Ethan measured 8 bean sprouts in inches. (a) How many sprouts are shorter than $\frac{1}{2}$ inch? (b) What is the total height of the sprouts that are exactly $\frac{1}{2}$ inch? (c) What is the total height of all 8 sprouts?



Line plot. Each X is one measurement. Label: Height of a sprout (inches).

Exercise 19 - Saturday bike rides

Solve. Sofia rode her bike 7 times this month. The line plot shows the length of each ride in miles. She wants to ride 8 miles in all. How many more miles does she need?



Line plot. Each X is one measurement. Label: Length of a ride (miles).

Exercise 20 - String for crafts

Solve. Priya cut 5 pieces of string for a craft project: two pieces of $\frac{1}{4}$ yard, one of $\frac{1}{2}$ yard and two of $\frac{3}{4}$ yard. (a) Make a line plot. (b) Find the total length. (c) She needs 4 yards of string in all. How many more yards does she need?