

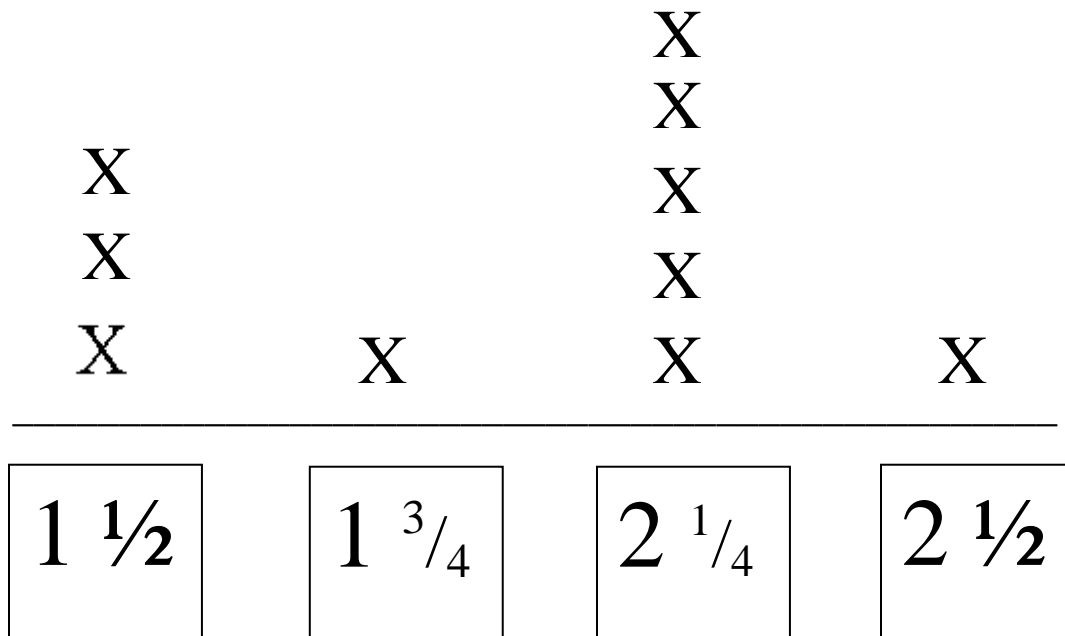
Name \_\_\_\_\_ Date \_\_\_\_\_



**Grade 5.MD.2:** Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{4}$ ,  $\frac{1}{8}$ ). Use operations on fractions for this grade to solve problems involving information presented in line plots. *For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.*

Study the line plot below. Your job is to take chocolate chips out of some bags and put them into others until each bag weighs the same.

Weight of Bags of Chocolate Chips (lb.)



- When you finish, how much will each bag weigh (mean)?
  - $1\frac{1}{2}$
  - 2
  - 4
  - 20
- What is the mode of the data set?

- a)  $1\frac{1}{2}$
- b)  $1\frac{3}{4}$

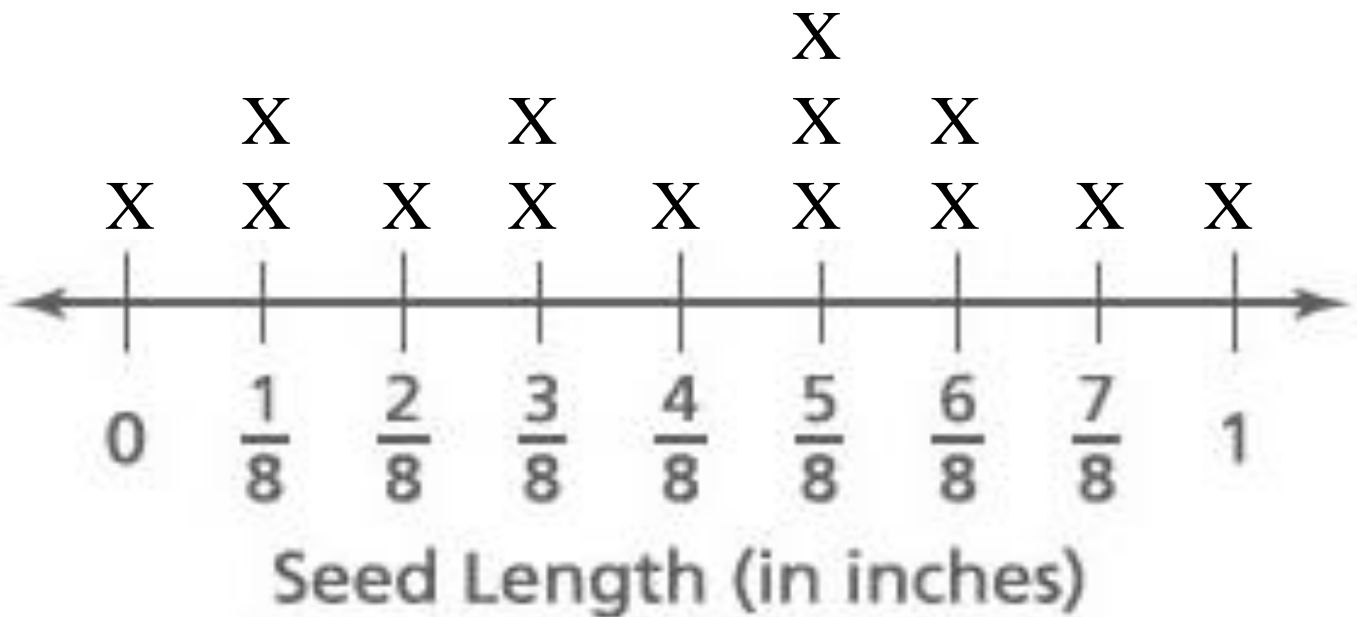
- c)  $2\frac{1}{4}$
- d)  $2\frac{1}{2}$

3. What is the range of the data set?

- a) 1 pound
- b)  $1\frac{1}{2}$  pounds

- c) 8 pounds
- d) 20 pounds

## SEED MEASUREMENTS



Use the Line Plot above to answer questions 4 and 5

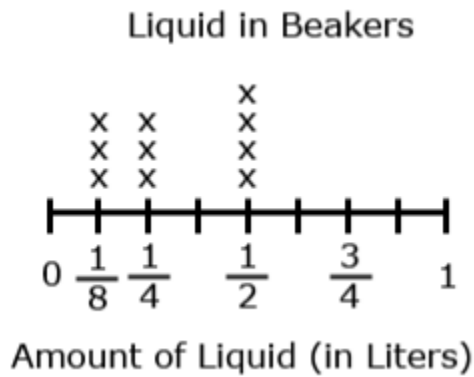
4. How many seeds measure less than  $\frac{5}{8}$  inches in length?

- a) 3
- b) 4

- c) 5
- d) 7

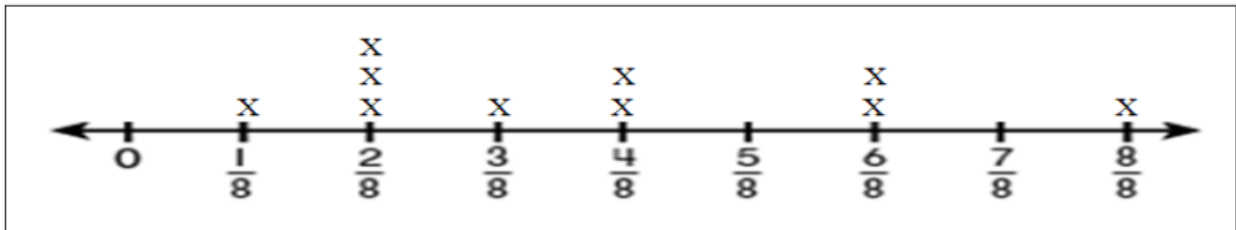
5. Given these different lengths, find the amount of length each seed would have if the length were redistributed equally amongst all of the seeds (mean). What would that amount of length be?

- a)  $\frac{1}{2}$  in.
  - b)  $\frac{1}{3}$  in.
  - c)  $\frac{1}{4}$  in.
  - d)  $\frac{1}{8}$  in.
6. The line plot shows the amount of liquid in 10 beakers. If the liquid is redistributed equally, how much liquid would each beaker have?



Show your work and label the solution.

7. The line plot below shows the measurement of student's objects in their desk to the nearest  $\frac{1}{2}$ ,  $\frac{1}{4}$ , or  $\frac{1}{8}$  of an inch. How many objects measured  $\frac{1}{4}$ ?  $\frac{1}{2}$ ? If you put all the objects together end to end what would be the total length of all the objects?



Show your work and label the solution.