Name: .... Class: ....
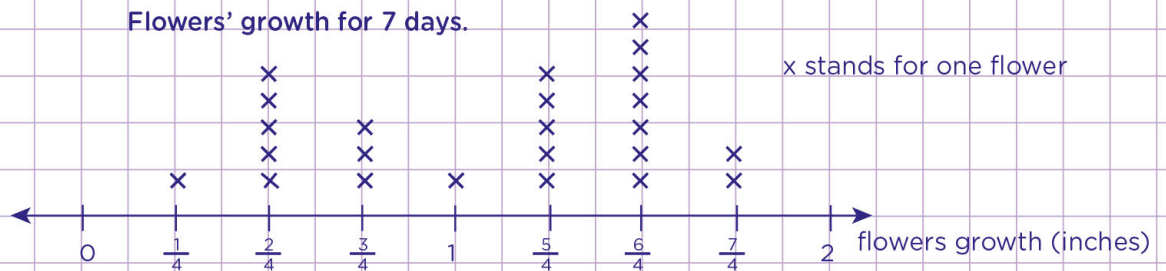
Create and interpret line plots with fractions

a. Larry's doctor recommended that he should take atleast half an apple a day. He said this will go a long way to improve his health. He equally recommended this to most of his patients. Use the information in the table below to create a line plot.

Apples eaten	
patients	Apples
Larry	$1\frac{1}{2}$
John	$\frac{1}{2}$
Belta	$\frac{1}{2}$
Tom	$2\frac{1}{2}$
Richard	$\frac{1}{2}$
Erica	$1\frac{1}{2}$
Pascal	$\frac{1}{2}$
Johnson	$2\frac{1}{2}$

b. Mrs. Amos studied the growth of her flowers in her flower pot over a period of 7 days. she recorded this information in a line plot. Study the line plot and answer the questions below.

Flowers' growth for 7 days.

x stands for one flower

flowers growth (inches)

$0 \quad \frac{1}{4} \quad \frac{2}{4} \quad \frac{3}{4} \quad 1 \quad \frac{5}{4} \quad \frac{6}{4} \quad \frac{7}{4} \quad 2$

How many flowers grew $\frac{2}{4}$ of an inch?

How many flowers grew less than $\frac{5}{4}$ of an inch?

mathskills4kids

Name: .... Class: ....

Create and interpret line plots with fractions

a. Larry's doctor recommended that he should take atleast half an apple a day. He said this will go a long way to improve his health. He equally recommended this to most of his patients. Use the information in the table below to create a line plot.
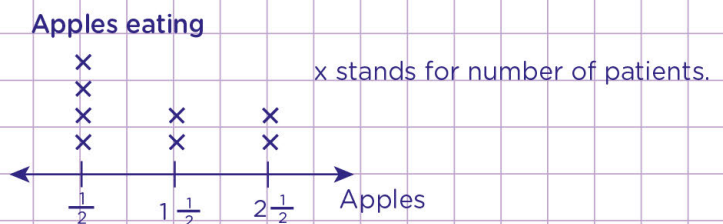
Apples eaten	
patients	Apples
Larry	$1\frac{1}{2}$
John	$\frac{1}{2}$
Belta	$\frac{1}{2}$
Tom	$2\frac{1}{2}$
Richard	$\frac{1}{2}$
Erica	$1\frac{1}{2}$
Pascal	$\frac{1}{2}$
Johnson	$2\frac{1}{2}$

Let's first of all arrange the data in the table in increasing order.
$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$, $2\frac{1}{2}$
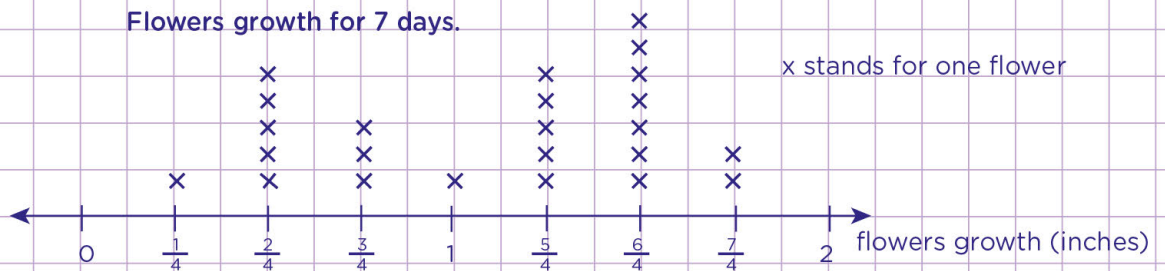
Then, to creat a line plot, let's draw a horizontal line labelled 'apples'. Seperate this line into equal intervals with the numbers arranged in increasing order as above.
Finally, look at the smallest number and count the number of times it appears, you see that half appears 4 times. So, put 4 x's above half to represent the number of patients that ate half apple. Do this for all the numbers in the apples' column

Apples eating

x stands for number of patients.

×
×
× × ×
× × ×
$\frac{1}{2}$ $1\frac{1}{2}$ $2\frac{1}{2}$ Apples

b. Mrs. Amos studied the growth of her flowers in her flower pot over a period of 7 days. she recorded this information in a line plot. Study the line plot and answer the questions below.

Flowers growth for 7 days.

x stands for one flower

0   $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ 1 $\frac{5}{4}$ $\frac{6}{4}$ $\frac{7}{4}$ 2   flowers growth (inches)

How many flowers grew $\frac{2}{4}$ of an inch?

To find the number of flowers that grew $\frac{2}{4}$ of an inch, let's count the number of x's above $\frac{2}{4}$

You see that, there are 5 x's

So, 5 flowers grow $\frac{2}{4}$ of an inch.

How many flowers grew less than $\frac{5}{4}$ of an inch?

To find the number of flowers that grow less than $\frac{5}{4}$ of an inche, let's count the number of x's above $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$

You see that, there are 9 x's

So, 9 flowers grew less than $\frac{5}{4}$ inches