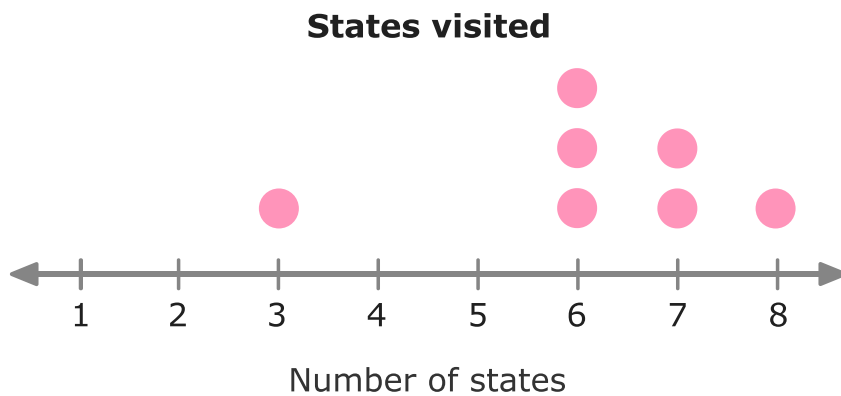# Dot plots

What is a dot plot?

A **dot plot** is a type of graph that uses dots to represent data along a number line. Dot plots can also be called line plots.

For example, this dot plot shows the number of states each person in Kevin's family has visited.

States visited

Number of states

Each dot represents one person. The numbers on the number line represent the number of states visited. So, you can tell how many states each person visited:

- One person has visited 3 states.

- Three people have visited 6 states.

- Two people have visited 7 states.

- One person has visited 8 states.

Go to IXL to try some practice problems!

An Italian restaurant monitored the number of times its regular customers ate pizza last month.

Eating pizza last month

Times eaten

How many customers ate pizza exactly once last month?

[   ] customers

Interpret line plots M5Y

Creating dot plots

You can follow these steps to make a dot plot from a data set:

1. Make a number line that includes all of the numbers in the data set.
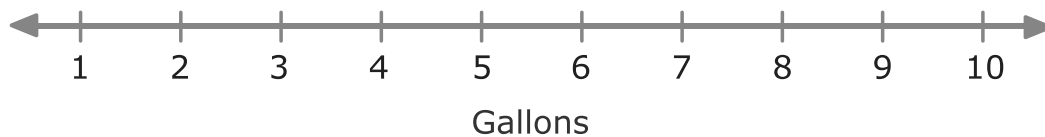2. Draw a dot to show each data point.

Let's try it for the example below!

Manuel works at a paint store. The data set shows the number of gallons of paint customers ordered during his shift.

1 1 1 1 1 2 2 2 4 5 5 6 7 10

First, make a number line. The smallest number in the data set is 1 and the largest number in the data set is 10. So, draw a number line from 1 to 10.
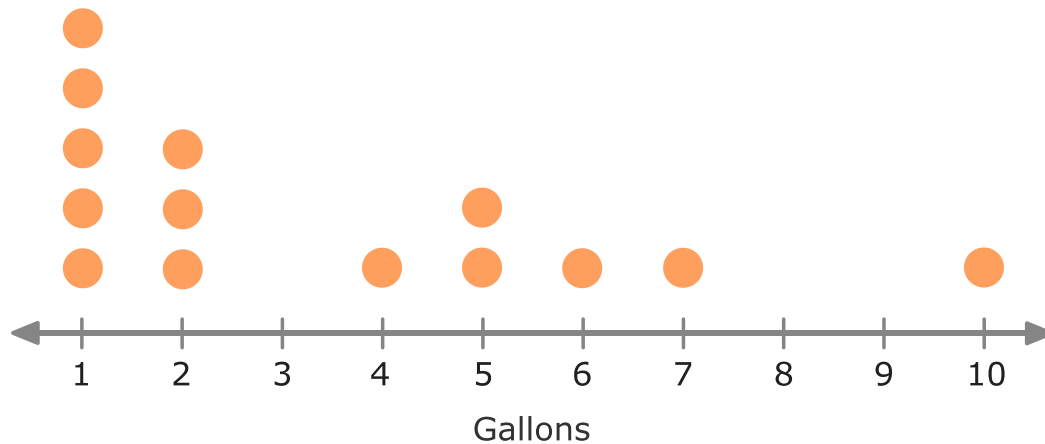
Paint orders

```
  1    2    3    4    5    6    7    8    9   10
                    Gallons
```

Now, draw dots to represent that data. Draw one dot to represent each customer.

1 1 1 1 1 2 2 2 4 5 5 6 7 10

Paint orders

```
  1    2    3    4    5    6    7    8    9   10
                    Gallons
```
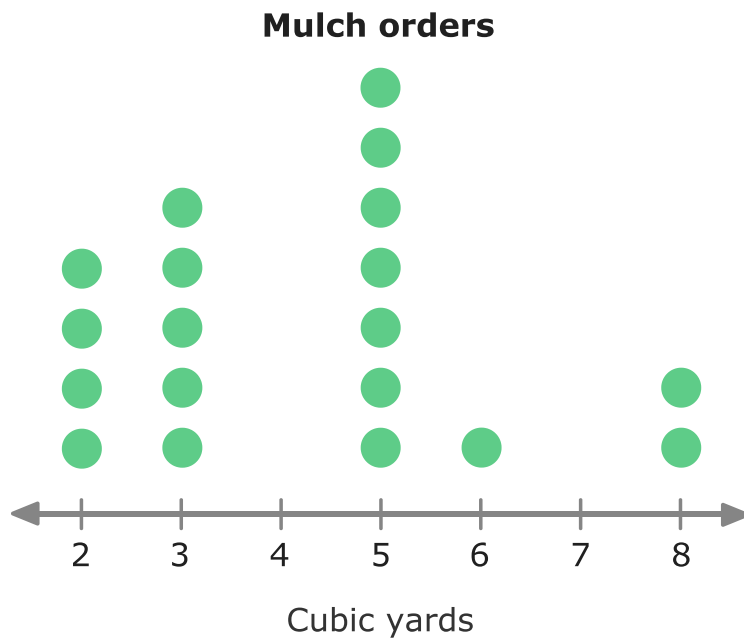
You can also use <u>frequency tables</u> to make dot plots!

Let's try it. Make a dot plot using the data in the frequency table below.

This frequency table shows how many cubic yards of mulch customers ordered from Oasis Landscape Services during one day.

Orders	
Cubic yards of mulch	Number of customers
2	4
3	5
5	7
6	1
8	2

Make a number line from 2 to 8. Then draw one dot to represent each customer.

Mulch orders

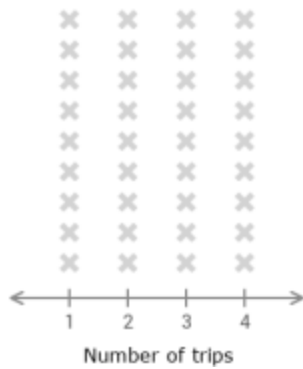Cubic yards

Go to IXL to try some practice problems!

Maddie surveyed people at the amusement park where she works and asked them how many times they visited last year.

Use the data in the table to complete the line plot below.

Trips to an amusement park last year	
Number of trips	Number of people
1	6
2	2
3	9
4	4

Click to select the X's. To clear a column, click on the number line below it.

Trips to an amusement park last year

```
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
✖   ✖   ✖   ✖
    ←──┼───┼───┼───┼──→
       1   2   3   4
        Number of trips
```

💎 Create line plots 5HD

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Lessons

Line plots

Frequency tables