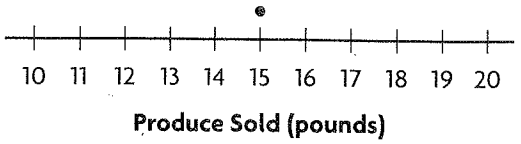
Dot Plots and Frequency Tables

A **dot plot** displays data by placing dots above a number line. Each dot represents one data value.

Paloma sells produce at the farmers' market. The chart shows the number of pounds she sells each day. What was the most common number of pounds that Paloma sold?

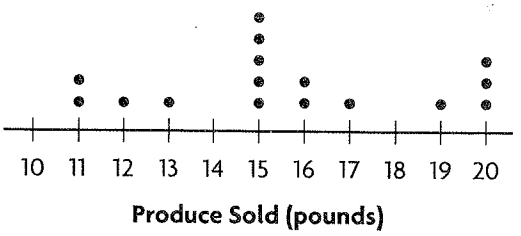
Produce Sold (pounds)			
15	19	15	16
20	16	17	20
11	12	15	20
15	13	11	15

Step 1 Draw a number line with an appropriate scale. The chart contains numbers from 11 to 20, so use a scale from 10 to 20.



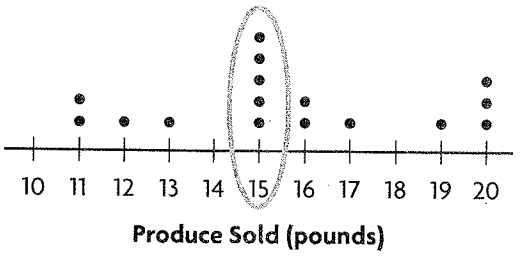
Step 2 For each data value in the chart, plot a dot above the number on the number line. The first data value in the chart is 15, so the dot is placed above 15 on the number line.

Complete the dot plot for the other values in the table. Since there are 16 data values, there should be 16 dots in all.



Step 3 The number of pounds Paloma sells most often is the value with the most dots. The stack with the most dots is at 15 pounds.

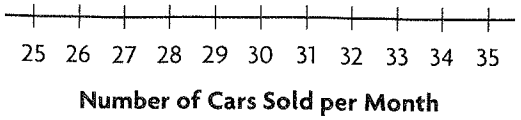
So, Paloma most often sells 15 pounds of produce.



Use the data in the chart at right.

Number of Cars Sold per Month					
26	32	35	29	30	26
25	29	28	31	29	26
35	26	26	28	26	30

1. Complete the dot plot.



2. What is the most common number of cars sold per month?

_____

Name _____

Practice
1-4

Tallies, Frequency Charts, and Line Plots

Make a frequency chart for each set of tally marks in Exercises 1–2.

1. Number of hours of television watched yesterday

Hours	Tally
0	|||
1	𝍸 ||
2	𝍸
3	𝍸 |||
4	|||
5	||

Frequency Chart

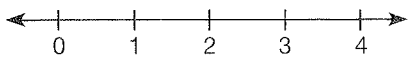
2. Number of pets at home

Pets	Tally
0	𝍸 𝍸 𝍸 ||
1	𝍸 𝍸 ||
2	𝍸 |||
3	𝍸 |
4	|||
5	|

Frequency Chart

3. Make a line plot of the number of books read last month.

Books	Frequency
0	4
1	6
2	3
3	2
4	1



4. The following data set shows the answers people gave when asked how many hours they slept last night: 8, 7, 8, 6, 8, 7, 5, 6, 9, 7, 6, 8, 7, 9, 7

a. Make a frequency chart for the data. **b.** Make a line plot for the data.