Class	Date

Lesson 9-3

Name ____

Frequency Tables and Dot Plots

Lesson Objective	Common Core Standard
To analyze a set of data by finding the range and by making frequency tables and dot plots	Statistics and Probability: 6.SP.4

Vocabulary

A frequency table is <u>a table that lists each item in a data set with the number of</u> times the item occurs.

 $A \ dot \ plot$ $a \ graph that shows the shape of the data by stacking dots above each data value on a number line.$

The range of a data set is the difference between the least and greatest values.

Example

Frequency Table The favorite lunch choices of ten students are: pizza, pizza, chicken, hamburger, chicken, pizza, chicken, pizza, pizza, pizza. Organize the data in a frequency table. Find the mode.

Favorite Lun	ch	— Make a tally mark for each lunch item chosen
Lunch hamburger	Tally / Freq.	The number of tally marks in each row
pizza	MI 6	is the frequency .
chicken	3	
Since the most students seld lunch item, the mode is	ected pizza	a as their favorite

Quick Check

1. The first initials of the names of 15 students are listed below.

A J B K L C K D L S T D V P L

Organize the data in a frequency table. Find the mode.

Initial	A	В	С	D	J	K	L	Р	S	Т	V
Tally				=							
Frequency	1	1	1	2	1	2	3	1	1	1	1

The mode is L

102

_____ Class _____

Examples

2 Using a Dot Plot Make a dot plot to display the dinner hour for seven families:



• Finding the Range Find the range of the data in Example 2.

8 -5 = **3** \leftarrow Subtract the least from the greatest value. The range of dinner times is **3** hours.

Quick Check

2. Use a dot plot to interpret the number of sales calls made each hour: 2, 3, 0, 7, 1, 1, 9, 8, 2, 8, 1, 2, 8, 7, 1, 8, 6, 1.



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3. The numbers of pottery items made by students are 36, 21, 9, 34, 36, 10, 4, 35, 30, 7, 5, and 10. Find the range of the data.

32
32