

Notes for Analyzing Dot Plots:

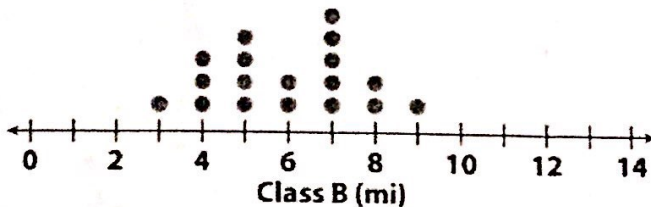
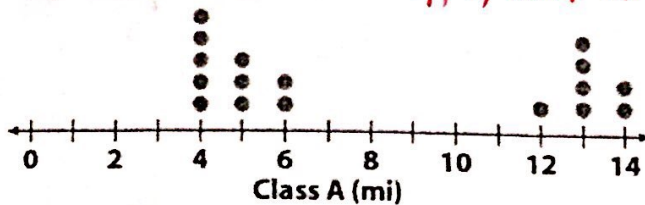
Center is the middle number. It is also known as the Median

List the numbers in order from least to greatest.

Spread is the Range. It is found by largest # - smallest #.

The dot plots show the number of miles run per week for two different classes. For 1-5, use the dot plots shown.

4, 4, 4, 4, 4, 5, 5, 5, 6, 6, 12, 13, 13, 13, 13, 14.



Compare the centers of the dot plots.

3, 4, 4, 4, 5, 5, 5, 5, 6, 6, 7, 7, 7, 7, 7, 8, 8, 9

Center: Class A: 6

Class B:  $\frac{6+6}{2} = \frac{12}{2} = 6$

Compare the spreads of the dot plots.

aka Range: 14 - 4 = 10 Class A

9 - 3 = 6 Class B

Calculate the medians of the dot plots.

Class A: 6 } Median is same as center

Class B: 6

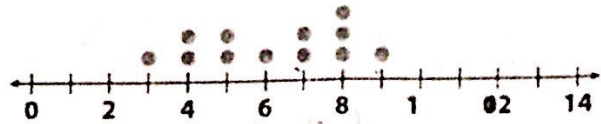
Calculate the ranges of the dot plots.

Range is same as spread

Class A: 10

Class B: 6

The dot plot shows the number of letters in the spellings of the 12 months. Use the dot plot for 7-10.



3, 4, 4, 5, 5, 6, 7, 7, 8, 8, 8, 9

Describe the center of the dot plot.

Median

$$\frac{6+7}{2} = \frac{13}{2} = 6.5$$

Describe the spread of the dot plot.

Range

$$9 - 3 = 6$$

Calculate the mean, median, and range of the data in the dot plot.

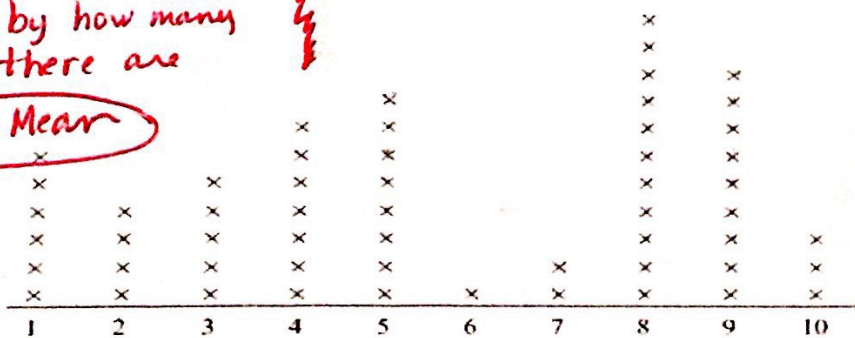
Add all up & ÷ by how many there are

Same as center 6.5

Same as spread 6

$$\frac{74}{12} = 6.1\bar{6}$$

Mean



Each x = 1 pie

Contestants

- 1) How many pies did contestant 5 eat? 8
- 2) Did contestant 2 or contestant 3 eat more pies? Contestant 3 ate more pies
- 3) Did contestant 6 or contestant 4 eat fewer pies? Contestant 6 ate fewer pies
- 4) How many contestants ate more than 3 pies? 1, 2, 3, 4, 5, 8, 9
- 5) How many contestants ate fewer than 8 pies? 7 contestants ate more than 3 pies  
1, 2, 3, 4, 6, 7, 10
- 6) What is the combined number of pies contestant 9 and contestant 8 ate? 11 + 9 = 20
- 7) Which contestant ate the most pies? Contestant 8 ate the most pies
- 8) Which contestant ate the fewest pies? Contestant 6 ate the fewest
- 9) Which contestants (if any) ate more than 8 pies? Contest 8 + 9 ate more than 8 pies
- 10) What is the difference in the number of pies contestant 3 ate and the number contestant 2 ate? 5 - 4 = 1  
subtract
- 11) Which contestant ate exactly 11 pies? Contestant 8 ate exactly 11 pies