

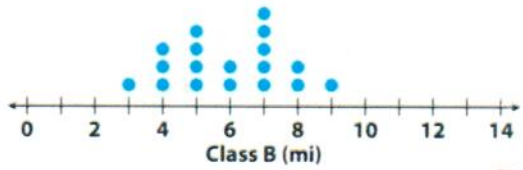
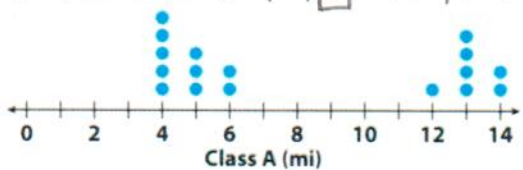
Name: Key  
 Period: \_\_\_\_\_

- Each dot represents a number in the data set.
- 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 number - smallest number.

**Examples**

1. The dot plots show the number of miles run per week for two different classes. Use the dot plots below to answer a - d.

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



4, 4, 4, 4, 4, 5, 5, 5, 6, 6, 12, 13, 13, 13, 13, 14, 14  
 3, 4, 4, 4, 5, 5, 5, 5, 6, 6, 7, 7, 7, 7, 7, 8, 8, 9

a) Compare the centers of the dot plots.

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

b) Compare the spreads of the dot plots.

Class A:  $14 - 4 = 10$   
 Class B:  $9 - 3 = 6$

c) Calculate the medians of the dot plots.

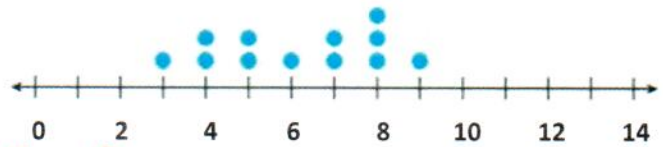
Class A: 6  
 Class B: 6  
 > median is the same as center.

d) Calculate the ranges of the dot plots.

Class A: 10  
 Class B: 6  
 > range is the same as spread

2. The dot plot shows the numbers of letters in the spellings of the 12 months. Use the dot plot to answer a – c.

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

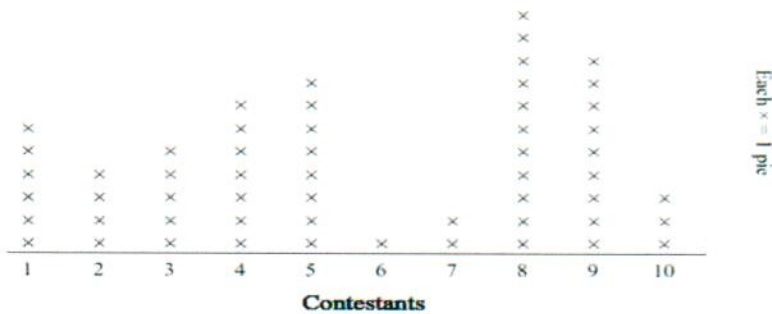


a) Describe the center of the dot plot:  $\frac{6+7}{2} = \frac{13}{2} = 6.5$

b) Describe the spread of the dot plot:  $9 - 3 = 6$

c) Calculate the mean of the dot plot:  $\frac{3+4+4+5+5+6+7+7+8+8+8+9}{12} = 6.1\bar{6}$

3. The dot plots shows the number of pies contestant #1 – 10 ate. Use the dot plot to answer a – k.



a) How many pies did contestant 5 eat? 8

b) Did contestant 2 or contestant 3 eat more pies? contestant 3

c) Did contestant 6 or contestant 4 eat fewer pies? contestant 6

d) How many contestants ate more than 3 pies? 7

e) How many contestants ate fewer than 8 pies? 7

f) What is the combined amount of pies that contestant 9 and contestant 8 ate?  $9+11 = 20$

g) What contestant ate the most pies? 8

h) Which contestant ate the fewest pies? 6

i) Which contestants (if any) ate more than 8 pies? contestants 8 and 9

j) What is the difference in the number of pies contestant 3 ate and the number contestant 2 ate?  $5-4 = 1$

k) Which contestant ate exactly 11 pies? contestant 8