STANDARD DEVIATION CONCEPT CHART

These data sets have small* standard deviations	**What do you notice about the data sets?**	**Create two data sets with small standard deviations.**
2, 3, 3, 4, 5, 5, 6 *80, 82, 82, 84, 86, 88, 89, 90* *113, 114, 117, 118, 118, 119*		
These data sets have large* standard deviations	**What do you notice about the data sets?**	**Create two data sets with large standard deviations.**
2, 22, 32, 45, 80 *42, 68, 79, 85, 102* *110, 225, 375, 560, 1002*		
Each of these data sets has a standard deviation of zero	**What do you notice about the data sets?**	**Create two data sets with standard deviations of zero.**
2, 2, 2, 2, 2, 2, 2, 2 *85, 85, 85, 85, 85, 85* *121, 121, 121, 121, 121, 121*		

*relative

What do the two data sets below have in common? What's different? Which has the larger standard deviation?	**What do the two data sets below have in common? What's different?**
1, 2, 3, 4, 5 *1, 1, 1, 5, 5*	*1, 2, 3, 4, 5* *6, 7, 8, 9, 10*
Create 2 data sets that have the same means, but different standard deviations.	**Create 2 data sets that have different means, but the same standard deviation.**
Is it possible to create two data sets that have different ranges, but both have a standard deviation of zero? Justify your reasoning and give an example to support your answer.	