## Fruit Loops/Cheerios Activity Name

## **Class Data**

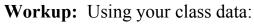
Class Data		
Student	Cereal	
#	#	
1		
2		
3		
# 1 2 3 4 5 6 7 8		
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10		
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**Query:** How many Fruit Loops/Cheerios are there in a "handful"?

Materials: Fruit Loops or Cheerios, paper towels

**Activity:** 1. Each student grabs a handful of Fruit Loops/Cheerios and counts them.

2. Record the class data.



1. Find the measures of central tendency.

Mean =	Mode =	Median =

2. Which measure of central tendency do you feel best represents the number of pieces of cereal in a handful for this class? Explain.

3. The Principal, a former basketball player, comes into class and takes a handful. With his entry, the mean increases. What can be said about the number of cereal pieces in the Principal's handful?

4. Peggy Sue comes into class and grabs a handful. With her entry, the median does not change. What can be said about the number of cereal pieces in Peggy Sue's handful?

5. Mrs. Smith, the librarian, and her pre-school daughter handfuls. When Mrs. Smith's entry is added, the media about the number of cereal pieces in Mrs. Smith's handful.	n decreases. What can be said
6. Little Ashley's entry is added. Ashley is a very smal would you predict would happen to the mean?	l little girl. With her entry, what
Again, with Ashley's entry, what would you predict wo	uld happen to the median?
7. Specify the five statistical summary for your class da	ıta:
minimum = maximum =	
$1^{st}$ quartile = $2^{nd}$ quartile =	
3 <sup>rd</sup> quartile =	
8. Construct a box-and-whisker plot for the class data.	