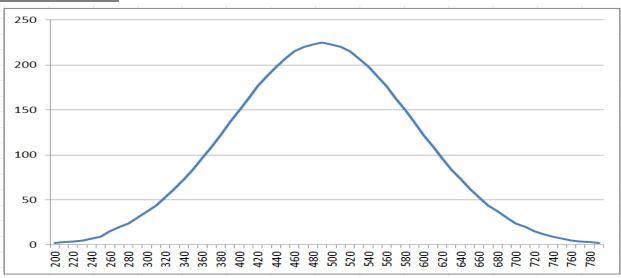
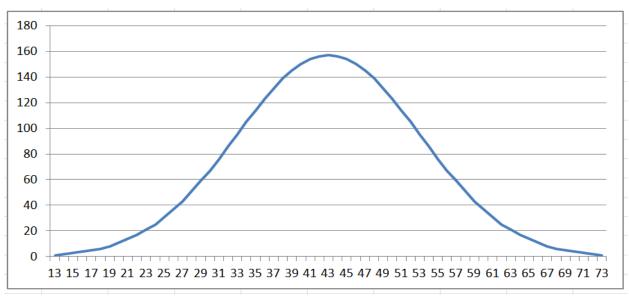
Date:

Normalization Data

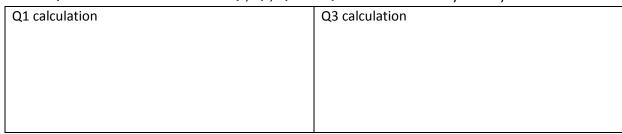


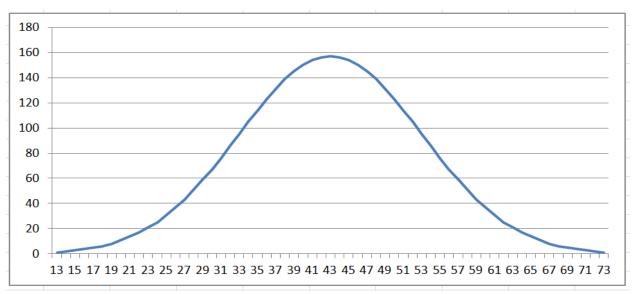
- 1. What is the mean for this normal data curve?
 - a. 490
- b. 200
- c. 225
- d. 780
- 2. On a Normalization Curve, what can we say about the mean and the median? _____
- 3. What is the name of the point on the curve where the standard deviation occurs?
- 4. Indicate point P on the curve and what is the standard deviation for this normal data curve?
 - a. 120
- b. 220
- c. 500
- d. 780
- 5. How many data points will we need to take to see the best bell curve?
 - a. 1,000,000
- b. 1000
- 100
- d. 10

- 6. In the set {10,12,16,19,20,21,19,17,14,11}, the median is
 - a. 20.5
- b. 16.5
- c. 11
- 7. In the set {10,12,16,19,20,21,19,17,14,11}, the mean is
 - a. 16.5
- b. 15.9
- c. 17
- d. 19
- 8. In the set {10,12,16,19,20,21,19,17,14,11}, the mode is
 - a. none
- b. 15.9
- c. 17
- d. 19
- 9. In the set {10,12,16,19,20,21,19,17,14,11}, the range is
 - a. none
- b. 10 to 11 c. 10 to 21
- d. 10 to 17



10. The normalization curve above has a mean of 43 and a standard deviation of 10.5005. Compute Q1 and Q3. Draw their lines and label Q1, Q2, Q3 and Q4. Label the line of symmetry.





11. The normalization curve above has a mean of 43 and a standard deviation of 10.5005. Compute below and show and the graph above where 95% of the data will exist using the 68 – 95 99.7 rule.

12. Compute the mean and standard deviation for the following set.

{10,12,16,19,20,21,19,17,14,11}

Weighted Average

13. Stacy is taking a ten-week Science class and has the following scores in homework, lab, quizzes, and tests. In this class, the instructor weighted the homework at 15%, lab at 20%, quizzes at 30% and tests at 35%. What is Stacy's final percent in the class

Category	1	2	3	4	5	6	7	8	9	10
Homework	76	81	82	79	83	85	86	82	81	85
Lab	91	89	84	78	82	86	84	89	68	91
Quizzes	72	81	83	86	89	84				
Tests	87	89	92							

	Avg	Weight	Score
Homework		15%	
Lab		20%	
Quizzes		30%	
Tests		35%	
		Grade	

14. Major Fred Rock is arranging for security during the soccer championship game in his city. He is preparing the risk assessment for his team. He rates each category from 1 to 5 with 5 being the most prepared. Contingency planning is weighted at 20%. Training of personnel is rated at 30%. Environmental conditions are weighted at 10%. Timing for the event is rated at 15% and the level of supervision is rated at 25%. Circle the area of security with the lowest score and is our area of the most concern.

	Securing the			Aviation
	area prior to	Bomb detection	Quick Reaction	Support and
Category	game	and disposal	Team	Transportation
Planned	4	4	5	3
Trained	3	4	3	2
Environment	1	2	4	4
Time to complete	4	1	3	5
Supervision	5	4	4	2
Weighted Score				