## Bellwork Algebra 2 Tuesday, May 27, 2014

- 1. Major League Baseball specifies that balls should weigh 9 ounces. A sample of balls showed that the mean weight was 9.04 ounces with a standard deviation of 0.08 ounces.
- a) What percent of balls weigh more than 9.12 ounces?

16 %

b) What percent of balls weigh between 8.96 and 9.20 ounces?

81.5%

c) What interval of weights contains 95% of the balls?

85.3 W 28.3

f) If balls whose weight is more than 1% from the specified 9 ounces are rejected, what percent of balls are rejected?

26.43+5-16= 31.59%

1% of 903 - .09

E9, 9 9-09

 $\frac{1}{2} = \frac{9.09 - 9.04}{.08}$   $\frac{100 - 73.57}{26.43}$   $\frac{100 - 9.04}{0.06} = -1.63$   $\frac{100 - 9.04}{0.06} = -1.63$ 

d) What percent of balls weigh less than 9.10 ounces?

2= 9.10-9.04 75

77.34%

e) What percent of balls weight less than 9 ounces?

L= 9-9.04 = -,5

-5 X .5

100-69.15

=30.85%