

**Bellwork Algebra 2 Thursday, May 22, 2014**

1. A manufacturer produces ball bearings for the automotive industry. The mean diameter of a ball bearing is 3.4mm with a standard deviation of 0.04 mm.

a) What % of the ball bearings have a diameter that is between 3.32mm and 3.44mm?

b) What % of the ball bearings have a diameter that is no more than 3.36mm?

e) What % of ball bearings have a diameter of at least 3.5mm?

f) What % of ball bearings have a diameter more than 3.35mm?

c) What interval of diameters contains 68% of the ball bearings?

d) What % of the ball bearings have a diameter less than 3.45mm?

g) What % of ball bearings have a diameter less than 3.3mm

h) If the diameter is more than 3.47 mm or less than 3.33 mm in diameter it can't be used. What percent of the ball bearings can't be used?