Algebra 1   Bellwork   Tuesday, January 7, 2014

1. The amount of snow for the 2011-2012 season was 132 inches.
   For the 2012-2013 season the amount of snow was 225.7 inches.
   Find the percent change to the nearest hundredth and tell if it is
   an increase or a decrease.

$$\frac{93.7}{132} = \frac{x}{100}$$

$.709848$

$$\boxed{\frac{70.98 \%}{Inc}}$$

2. The average attendance at a Tigers game in 2009 was 31,693.
   In 2010 the average attendance was 30,386. Find the percent
   change to the nearest tenth and tell if it is an increase or a
   decrease.

$$\frac{-1307}{31,693}$$

$$\boxed{4.1 \% \, dec}$$

3. From 2000 to 2010 the minimum salary for a Major
League baseball player increased 140%. The minimum
salary in 2000 was $200,000. Find the minimum salary
in 2010.

$$100\% + 140\% = 240\%$$

$$\frac{240}{100} = \frac{x}{200,000}$$

$$\boxed{480,000}$$

4. The population of Detroit in 2012 was 701,547. There was a
41.7% decrease in population from 1980 to 2012. Find the 1980
population to the nearest whole number.

$$100\% - 41.7\% = 58.3\%$$

$$\frac{58.3}{100} = \frac{701.547}{x}$$

$$\boxed{1,203,340}$$