## Assignment – Dimensional Analysis (Distance)

## Solve the following (show all of your work)

2. 1 mile = 
$$63,360$$
 inches

3. 
$$100 \text{ feet} = 0.019 \text{ miles}$$

$$12 \text{ yerds} \times \frac{3 \text{ feet}}{1 \text{ yerds}} \times \frac{12 \text{ inches}}{1 \text{ feet}} = (12)(3)(12) \text{ inches}$$

$$[432 \text{ inches}]$$

## Solve the following (show all of your work)

5. 24 yards = 0.013 6 miles

6. 72 inches = \_\_\_\_\_ yards

7.  $2\frac{1}{2}$  miles = 13,200 feet

8. Johnny is on the football team at HHS. During the homecoming game, Johnny catches the opening kickoff on his own goal line. He then runs the ball all the way for a touchdown. How many inches did he run?

Hint: football field is 100 yards