Complete the following assignment in your class notebook with the heading: Dimensional Analysis Practice

Use the relationships below to solve the following problems using proper dimensional analysis as shown in class. Include correct units, significant figures, and Box final answers.

| 1 inch $=2.54 \mathrm{~cm}$ | 1 mile $=5280 \mathrm{ft}$. | 1 day $=24 \mathrm{hrs}$ |
| :--- | :--- | :--- |
| 1 yard $=3 \mathrm{ft}$. | $1 \mathrm{~min}=60 \mathrm{sec}$ | $1 \mathrm{yr}=365$ days |
| 1 mile $=1.61 \mathrm{~km}$ | 1 hour $=60 \mathrm{~min}$ | $1 \mathrm{~atm}=760 \mathrm{~mm} \mathrm{Hg}$ |

1.) 47.0 inches $=$ ? ft.
2.) 2.30 miles $=$ ? km
3.) $4.75 \mathrm{hrs}=$ ? min
4.) $87.0 \mathrm{~min}=$ ? days
5.) $7.32 \mathrm{~atm}=$ ? mm Hg
6.) $734 \mathrm{sec}=$ ? years
7.) $95.0 \mathrm{~mm}=$ ? yards
8.) 24.5 miles $/$ hour $=$ $\qquad$ $\mathrm{km} /$ min
9.) $62.0 \mathrm{sec} / \mathrm{yard}=$ $\qquad$ hrs/ft.
10.) $70.0 \mathrm{~mm} / \mathrm{sec}=$ ? miles $/ \mathrm{yr}$

