

HW 1.1 Dimensional Analysis
(COPYING IS NOT ALLOWED!)

Per_____ Name:_____

1. Calculate the number of seconds in one year (365 days) (express your answer in sci. not.)

2. Calculate the number of seconds in one average lifetime (75 years) (express your answer in sci. not)

3. One million seconds equals how many days?

4. How many times has the Moon revolved around the Earth since the last ice age 10,000 years ago?
The sidereal period of the Moon is 27.3 days.

5. 1.4 km/hr = _____ m / s

6. 55 mi/hr is equal to how many m/s?

7. 25 m/s = _____ mi/hr

8. The escape velocity near the Earth for the space shuttle is 25,805 mi/hr. How many meters per second is this?