

## Dimensional Analysis Practice

speed of light	300,000 km/s
1 mile	1.6 km
speed of the millenium falcon	1050 km/hr
1 km	1000 m

1. How far in km does light travel in one year?
2. How long in seconds does it take the millenium falcon to travel 10 miles?
3. Earth is  $1.62 \times 10^8$  miles from Venus.
  - a. How long would it take the millenium falcon to get to Venus from Earth in hours?
  - b. How long would it take light to make this same trip in seconds?

4. What is the speed of the Millenium Falcon in meters per second?

5. What is the speed of light in mph (miles per hour)?

6. How far can the Millenium Falcon travel in 1 day?

**If you can do this one, you can do anything of them.**

2 whoosits	1 whatsit
1 whatsit	4 widgets
3 widgets	1 wocket

7. How many wockets are in my pocket if I there are 6 whoosits in my pocket?