## SPH3U0

## Rearranging Equations Practice

LASS2011

1. Find the density of a metal block with a mass of 664.3 g and a volume of 8.7 cm<sup>3</sup>.

$$(Density = \frac{mass}{volume})$$

2. Find the average speed of a baseball which travels 16.0 m in 1.4375 seconds.

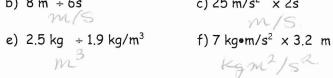
$$(Average\ speed\ = \frac{distance\ travelled}{time\ taken})$$

3. Analyze the questions below to determine the units that would result from each of the following calculations.

- a) 2 cm/s x 15 s CM.
- b)  $8m \div 6s$

c)  $25 \text{ m/s}^2 \times 2s$ 

- d)  $5 \text{ m/s} \div 0.2 \text{ s}$ m



4. Rearrange each formula to solve for the indicated quantity.

a) E = VIT ; Solve for V

b) 
$$p = \frac{F}{4}$$
; Solve for A



