

Name: _____
Program, Year & Section: _____

Score: _____
Date: _____

Worksheet 2
Measurement

Convert the following measurement into the indicated units. Show your solutions, and tentative and final answers.

1. 600.050 fm to dam

$$606.050 \text{ fm} \left(\frac{1 \times 10^{-15} \text{ m}}{1 \text{ fm}} \right) \left(\frac{1 \text{ dam}}{1 \times 10^{-8} \text{ m}} \right)$$

dam tentative answer

dam final answer

2. 46 yd/min² to in/s²

$$46 \frac{\text{yd}}{\text{min}^2} \left(\frac{\text{ft}}{1 \text{ yd}} \right) \left(\frac{\text{in}}{1 \text{ ft}} \right) \left(\frac{1 \text{ min}}{60 \text{ s}} \right)^2$$

in/s² tentative answer

in/s² final answer

3. 50.0 km/hr to m/s

$$50.0 \frac{\text{km}}{\text{hr}} \left(\frac{1 \times 10^{-3} \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right)$$

m/s tentative answer

m/s final answer

4. 1500 kPa to Pa

$$1500 \text{ kPa} \left(\frac{1 \times 10^3 \text{ Pa}}{1 \text{ kPa}} \right)$$

Pa tentative answer

Pa final answer

5. 165 ft/s² to cm/s²

$$165 \frac{\text{ft}}{\text{s}^2} \left(\frac{12 \text{ in}}{1 \text{ ft}} \right) \left(\frac{2.54 \text{ cm}}{1 \text{ in}} \right)$$

cm/s² tentative answer

cm/s² final answer

6. 9120 mm³ to hm³

$$9120 \text{ mm}^3 \left(\frac{1 \times 10^{-3} \text{ m}}{1 \text{ mm}} \right)^3 \left(\frac{1 \text{ hm}}{1 \times 10^2 \text{ m}} \right)^3$$

hm³ tentative answer

hm³ final answer