Dimensional Analysis Practice Worksheet Solutions

Complete this and place it in your portfolio after section 2-2. I will email the solutions later so that you can check your work (make sure you are showing the work the same way you see it in the solutions, using dimensional analysis). It is important that you practice and learn to use dimensional analysis (multiplying by unit fractions) appropriately. Make sure you get help if you are still having difficulties with this topic. Use my office hours or the math tutors in the Student Learning Center in the library. You do not have to write sentences on this practice worksheet. You do need to show all of the units and use ≈ for approximations.

Do the following conversions using dimensional analysis using the conversion factors on page 74 of your text. You should be doing these all in one computation (even if you have to use more than one unit fraction), not several computations. I have done #1 as example.

1. 5400 inches to miles

$$5400 \; \text{in.} \times \frac{1 \; \text{ft}}{12 \; \text{in.}} \times \frac{1 \; \text{mi}}{5280 \; \text{ft}} = \frac{5400}{63360} \; \text{mi}$$
$$\approx 0.085 \; \text{mi}$$

2. 13 weeks to seconds

$$13 \; \text{weeks} \times \frac{7 \; \text{days}}{1 \; \text{week}} \times \frac{24 \; \text{hrs}}{1 \; \text{day}} \times \frac{60 \; \text{min}}{1 \; \text{hr}} \times \frac{60 \; \text{sec}}{1 \; \text{min}} = 7,862,400 \; \text{sec}$$

3. 54 yards to mm

$$54 \; \text{yards} \times \frac{3 \; \text{feet}}{1 \; \text{yd}} \times \frac{1 \; \text{m}}{3.28 \; \text{ft}} \times \frac{1000 \; \text{mm}}{1 \; \text{m}} = \frac{162000}{3.28} \; \text{mm}$$
$$\approx 49,390.24 \; \text{mm}$$

4. $36 \; \dfrac{\text{cm}}{\text{sec}}$ to mph

$$\frac{36 \; \text{cm}}{1 \; \text{sec}} \times \frac{60 \; \text{sec}}{1 \; \text{hr}} \times \frac{1 \; \text{m}}{1000 \; \text{cm}} \times \frac{3.28 \; \text{ft}}{1 \; \text{m}} \times \frac{1 \; \text{mi}}{5280 \; \text{ft}} = \frac{7084.8 \; \text{mi}}{5280000 \; \text{hr}}$$
$$\approx 0.00134 \frac{\text{mi}}{\text{hr}}$$

Dimensional Analysis Practice Problems With Answers

M Mosston

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