

## 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  $\approx$  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

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

2. 13 weeks to seconds

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

3. 54 yards to mm

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

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

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

# Dimensional Analysis Questions And Answers

**JG Myers**



## **Dimensional Analysis Questions And Answers:**

## **Dimensional Analysis Questions And Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Dimensional Analysis Questions And Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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 $\cos(x) = \frac{1}{\sqrt{2}}$   $x = \frac{\pi}{4}, \frac{7\pi}{4}$   
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