

## DIMENSIONAL ANALYSIS PROBLEMS

### Conversions Factors

1 hr = 60 min	1 min = 60 sec	1 ton = 2000 lbs	7 days = 1 week
24 hrs = 1 day	1 kg = 2.2 lbs	1 gal = 3.79 L	264.2 gal = 1 cubic meter
1 mi = 5,280 ft	1 kg = 1000 g	1 lb = 16 oz	20 drops = 1 mL
365 days = 1 yr	52 weeks = 1 yr	2.54 cm = 1 in	1 L = 1000 mL
0.621 mi = 1.00 km	1 yd = 36 inches	1 cc is 1 cm <sup>3</sup>	1 mL = 1 cm <sup>3</sup>

**DIRECTIONS:** Solve each problem using dimensional analysis. Every number must have a unit. Work must be shown. Conversion factors are given above.

1.) How many miles will a person run during a 10 kilometer race?

$$6.2 \text{ mi}$$

2.) The moon is 250,000 miles away. How many feet is it from earth?

$$1,320,000,000 \text{ ft}$$

3.) A family pool holds 10,000 gallons of water. How many cubic meters is this?

$$37.85 \text{ m}^3$$

4.) The average American student is in class 330 minutes/day. How many hours/day is this?

$$5.5 \text{ hrs/day}$$

How many seconds is this?

$$19,800 \text{ sec}$$

5.) How many seconds are there in 1 year?

$$31,536,000 \text{ sec}$$

# Dimensional Analysis Worksheet Answers

**Geological Survey (U.S.)**



**Dimensional Analysis Worksheet Answers:**

## Unveiling the Power of Verbal Art: An Psychological Sojourn through **Dimensional Analysis Worksheet Answers**

In some sort of inundated with displays and the cacophony of instant connection, the profound energy and psychological resonance of verbal artistry frequently disappear into obscurity, eclipsed by the constant assault of sound and distractions. Yet, situated within the musical pages of **Dimensional Analysis Worksheet Answers**, a fascinating function of literary splendor that pulses with fresh feelings, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that magical opus instructions visitors on a psychological odyssey, gently exposing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is key subjects, dissect their fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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