

## Dimensional Analysis Practice Answer Key

### 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   | 1 m = 100 cm             |
| 1 mi = 5,280 ft    | 1 kg = 1000 g    | 1 lb = 16 oz     | 1 m = 1000 mm            |
| 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 km = 1000 m    | 1 mL = 1 cm <sup>3</sup> |

Please make sure to show all work! Include units in your work!

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

$$10 \text{ Km} \times \frac{0.621 \text{ mi}}{1 \text{ Km}} = \boxed{6.21 \text{ mi}}$$

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

$$250,000 \text{ mi} \times \frac{5,280 \text{ ft}}{1 \text{ mi}} = \boxed{1,320,000,000 \text{ ft}}$$

3. A pool holds 1,300,000 gallons of water. How many liters is this?

$$1,300,000 \text{ gal} \times \frac{3.79 \text{ L}}{1 \text{ gal}} = \boxed{4,927,000 \text{ L}}$$

4. If a person weighs 125.5 lbs., how many mg do they weigh?

$$125.5 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1000 \text{ mg}}{1 \text{ g}} = \boxed{57,045,454.55 \text{ mg}}$$

5. The distance from Santa Maria to Los Alamos is 16.25 mi. What is the distance in cm?

$$16.25 \text{ mi} \times \frac{1 \text{ Km}}{0.621 \text{ mi}} \times \frac{1000 \text{ m}}{1 \text{ Km}} \times \frac{100 \text{ cm}}{1 \text{ m}} = \boxed{2616,747.182 \text{ cm}}$$

6. During the previous year, Zach's weather station measured 0.8 yards of rain. Express this amount in cm.

$$0.8 \text{ yd} \times \frac{36 \text{ in}}{1 \text{ yd}} \times \frac{2.54 \text{ cm}}{1 \text{ in}} = \boxed{73.152 \text{ cm}}$$

# Dimensional Analysis Practice With Answer Key

**Christian G. Meyer**



**Dimensional Analysis Practice With Answer Key:**

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Dimensional Analysis Practice With Answer Key**

In some sort of inundated with monitors and the cacophony of instant transmission, the profound energy and psychological resonance of verbal artistry usually disappear in to obscurity, eclipsed by the constant barrage of noise and distractions. However, set within the lyrical pages of **Dimensional Analysis Practice With Answer Key**, a interesting perform of literary elegance that impulses with natural emotions, lies an memorable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus manuals viewers on an emotional odyssey, gently revealing the latent possible and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main subjects, dissect their captivating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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