

## 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

**ML Yell**



**Dimensional Analysis Practice With Answer Key:**

## Embracing the Song of Phrase: An Psychological Symphony within **Dimensional Analysis Practice With Answer Key**

In a global used by displays and the ceaseless chatter of instant conversation, the melodic splendor and emotional symphony developed by the published term frequently fade into the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. However, set within the pages of **Dimensional Analysis Practice With Answer Key** a marvelous literary treasure filled with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this captivating masterpiece conducts visitors on an emotional trip, skillfully unraveling the concealed songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the moving examination, we shall discover the book is key harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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