

## 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

**LP Steffe**



**Dimensional Analysis Practice With Answer Key:**

## Unveiling the Magic of Words: A Review of "**Dimensional Analysis Practice With Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Dimensional Analysis Practice With Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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