

## 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

**N Colangelo**



**Dimensional Analysis Worksheet Answers:**

## Unveiling the Magic of Words: A Review of "**Dimensional Analysis Worksheet Answers**"

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 Worksheet Answers**," a mesmerizing literary masterpiece penned with 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 into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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