

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 ³	1 mL = 1 cm ³

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 mi

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

1,320,000,000 ft

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

37.85 m³

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

5.5 hrs/day

How many seconds is this?

19,800 sec

5) How many seconds are there in 1 year?

31,536,000 sec

Answer Key For Dimensional Analysis Problems

Sabine Zange



Answer Key For Dimensional Analysis Problems:

Decoding **Answer Key For Dimensional Analysis Problems**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answer Key For Dimensional Analysis Problems**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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