

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 ³

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

David Kirk



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diesel engine with 2 valves per cylinder. Mercedes Benz OM366LA Engine Overhaul Kit Buy Mercedes Benz OM366LA Engine Overhaul Kit from Heavy Duty Kits at Discounted Rates. Quality Parts, 2 Years Warranty. Free Shipping. Modifying an OM364/366LA Engine Jul 2, 2021 — Has anyone modified an OM364LA or OM366LA engine to get more horsepower? If so what did you do? Which turbo did you go with? OM366A and 366LA differences Jan 29, 2010 — I know this because Mercedes used to do 1220, 1222 and 1224 trucks all with the 366 LA engine-where 12 is the weight and e.g the 24 is 240BHP. Mercedes OM366 Diesel engine.... #shorts - YouTube Mercedes Benz Om366 Engine With a wide range of engines in our listing, you can find om366 diesel engines that are perfect for this type of vehicle. Diesel engines are suitable for a cool ... CNG Engine OM 366LA Engine OM366LA NG. Engine OM366 NG. Turbo w/Air-to-Air Intercooler (T). Normally Aspirated (NA) ; Cylinders Bore & Stroke Displacement, 6 Inline 97,5 mm x 133mm OM366 Spec | PDF Technical Data Mercedes-Benz Industrial Diesel Engine OM 366 97 kW OM 366 - OM 366A OM366LA Technical Data. 'The OM 366 in-line engine is part of the ... Mercedes OM366 specs, bolt torques and manuals OM366 Diesel Engine Specs ; Displacement ; OM366N 5.958 liter, 346 CID ; Bore 97.5 mm, 3.839 in ; Stroke 133.0 mm, 5.236 in ; Compression ratio 17.25:1 Naturally ... Mercedes Benz OM366LA Turbo CHRA 169109 Description. This is a New Mercedes Benz OM366LA Turbo CHRA 169109. We stand behind our products with a Full 1 Year Warranty Unlimited Mileage, ... What Got You Here Won't Get You... by Goldsmith, Marshall What Got You Here Won't Get You There: How Successful People Become Even More Successful [Goldsmith, Marshall, Reiter, Mark] on Amazon.com. What Got You Here Won't Get You There: How Successful ... What Got You Here Won't Get You There: How Successful People Become Even More Successful - Kindle edition by Goldsmith, Marshall, Mark Reiter. What got you here wont get you there "If you are looking for some good, practical advice on how to be more successful, this is a good place to start. Marshall Goldsmith, author of What Got You Here ... What Got You Here Won't Get You There Quotes 86 quotes from What Got You Here Won't Get You There: 'Successful people become great leaders when they learn to shift the focus from themselves to others.' What Got You Here Won't Get You There: How Successful ... What Got You Here Won't Get You There: How Successful People Become Even More Successful · Hardcover(Revised ed.) · \$25.99 \$29.00 Save 10% Current price is \$25.99 ... What Got You Here Won't Get You There What Got You Here Won't Get You There: How Successful People Become Even More Successful by Marshall Goldsmith is a fantastic collection of 256 pages and is a ... Book Summary: What Got You Here Won't Get You There Incredible results can come from practicing basic behaviors like saying thank you, listening well, thinking before you speak, and apologizing for your mistakes. What Got You Here Won't Get You There by Marshall Goldsmith Marshall Goldsmith is an expert at helping global leaders overcome their sometimes unconscious annoying habits and attain a higher level of success. His one-on- ... What Got You Here Won't Get You There Summary Mar 24, 2020 — But with What Got You Here Won't Get You There: How Successful People Become Even More Successful, his knowledge and expertise are available ... Prayers of the Cosmos - Abwoon Prayers of the Cosmos -

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