

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

Ian Pickup



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