

Dimensional Analysis Worksheet 2

Name: Answer Key Period Date

Use dimensional analysis (the "factor-label" method) to solve the following problems. **Show all steps** needed to convert from starting units to ending units. **Indicate all relationships needed** before setting up and solving the problem. Use any of the following relationships if needed:

1 mile = 1760 yds	16 oz = 1 lb	1 L = 1.06 qts	1 day = 24 hours
1 yd = 3 ft	2000 lbs = 1 ton	4 qts = 1 gal	1 hour = 60 mins
1 ft = 12 in	1 oz = 28.35 g	32 oz = 1 qt	1 min = 60 secs
1 mile = 1.61 km	1 kg = 2.2 lbs	1 qt = 2 pts	

1. A runner competed in a 5-mile run. How many yards did she run?

Relationship: 1 mile = 1760 yds

$$5 \cancel{\text{ miles}} \cdot \frac{1760 \text{ yds}}{1 \cancel{\text{ mile}}} = 8800 \text{ yds}$$

2. In the Tour de France, cyclists ride 3,653.6 km over 20 days. How many miles do they go? [Hint: watch for unimportant information!]

Relationship: 1 mile = 1.61 km

$$3653.6 \cancel{\text{ km}} \cdot \frac{1 \text{ mile}}{1.61 \cancel{\text{ km}}} = 2269.3 \text{ mi}$$

3. After a nice meal, perhaps you'd finish it off with a pound cake for dessert. What would the name of this cake be in grams?

Relationships: 1 lb = 16 oz; 1 oz = 28.35 g

$$1 \cancel{\text{ lb}} \cdot \frac{16 \cancel{\text{ oz}}}{1 \cancel{\text{ lb}}} \cdot \frac{28.35 \text{ g}}{1 \cancel{\text{ oz}}} = 453.6 \text{ g (A "453.6-g cake")}$$

4. In the US milk is sold by the gallon, while in Italy it is sold by the liter. How many liters of milk would you need to equal one gallon?

Relationships: 1 L = 1.06 qts; 4 qts = 1 gal

$$1 \cancel{\text{ gal}} \cdot \frac{4 \cancel{\text{ qts}}}{1 \cancel{\text{ gal}}} \cdot \frac{1 \text{ L}}{1.06 \cancel{\text{ qt}}} = 3.77 \text{ L}$$

5. If you go to school for 180 days each year and each day is 7 hours long, how many hours are spent in school in one year?

Information: 1 day = 7 hours (only for school)

$$\frac{180 \cancel{\text{ days}}}{1 \text{ (school) year}} \cdot \frac{7 \text{ hrs}}{1 \cancel{\text{ day}}} = \frac{1260 \text{ hrs}}{1 \text{ (school) year}}$$

Turn over!

Kuta Software Dimensional Analysis

Y Pai

A decorative red curved shape, resembling a stylized arrow or a partial circle, is positioned to the right of the light blue bar.

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