

Dimensional Analysis 2

Metric & English Conversions

Mr. Sudbury

Review – Dimensional Analysis

- ▶ Remember that we use equalities to create conversion factors.
- ▶ We multiply by conversion factors to change the units.
- ▶ Units cancel top to bottom.
- ▶ Report your answer to the correct number of sig. figs.

Convert Metric to Metric

- ▶ 246.2 cm to meters

Convert Metric to Metric

- ▶ 1.42 L to mL

Convert Metric to Metric

- ▶ 0.067 kg to mg

Convert English to English

- ▶ How many feet in 1.25 miles?

Convert English to English

- ▶ How many yards in 0.500 miles?

Convert English to English

- ▶ How many ounces in 24.0 pounds?

Convert English to English

- ▶ How many cups in a 2.3 gal?

Convert English to Metric

- ▶ How many inches in a 2.45 m?

Convert English to Metric

- ▶ How many mL in a 1.45 gal?

Convert English to Metric

- ▶ How many km in a marathon (26.2miles)?

Compound Units

- ▶ How fast in m/s is a speed limit of 45 mph?

- ▶ The End!