

6.14 Dimensional Analysis and Unit Conversions

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____

Date: _____

Class/Period: _____

Problem 6.211 Convert 4500 m to km.

Problem 6.214 Convert 84 in to ft.

Problem 6.212 Convert 3.8 km to m.

Problem 6.215 Convert 5.5 yd to in.

Problem 6.213 Convert 750 cm to m.

Problem 6.216 Convert 2.25 hr to min.

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Problem 6.217 Convert 5400 s to hr.

Problem 6.220 Convert 4 m^2 to cm^2 .

Problem 6.218 Convert 6 L to mL.

Problem 6.221 Convert 2 ft^3 to in^3 .

Problem 6.219 Convert 3500 g to kg.

Problem 6.222 Explain why $\frac{12 \text{ in}}{1 \text{ ft}} = 1$.

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Problem 6.223 Convert 55 miles per hour to feet per second.

Problem 6.225 A price is \$3.20 per pound. Convert it to dollars per ounce.

Problem 6.224 Convert 18 meters per second to kilometers per hour.

Problem 6.226 A machine produces 240 parts per hour. Convert the rate to parts per minute and seconds per part.