November 30, 2020

7th Grade
Nov 30, 2020

Please get out your binder for in-class notes.

Today we will:
-take notes
-complete examples in notes on own

HOMEWORK:

Complete notes

NO ALEKS tonight :)

Test over lessons 1-4 and binder check THURSDAY

# Glue into binder:

## Measurement Conversions

| Length | |
|---|---|
| **Customary to Metric** | **Metric to Customary** |
| 1 in = 2.54 cm | 1 cm = 0.394 in |
| 1 ft = 0.305 m | 1 m = 3.279 ft |
| 1 yd = 0.914 m | 1 m = 1.094 yd |
| 1 mi = 1.609 km | 1 km = 0.621 mi |
| 1 m = 100 cm | |
| 1 km = 1000 m | |
| 1 mi = 5280 ft | |
| 1 yd = 3 ft | |

| Capacity | |
|---|---|
| **Customary to Metric** | **Metric to Customary** |
| 1 fl oz = 29.574 mL | 1 mL = 0.034 fl oz |
| 1 pt = 0.473 L | 1 L = 2.114 pt |
| 1 qt = 0.946 L | 1 L = 1.057 qt |
| 1 gal = 3.785 L | 1 L = 0.264 gal |
| 1 L = 1000 mL | |
| 1 c = 8 fl oz | |
| 1 pt = 2 c | |
| 1 qt = 2 pt | |
| 1 gal = 4 qt | |

| Mass or Weight | |
|---|---|
| **Customary to Metric** | **Metric to Customary** |
| 1 oz = 28.350 g | 1 g = 0.035 oz |
| 1 lb = 0.454 kg | 1 kg = 2.203 lb |
| 1 kg = 1000 g | |

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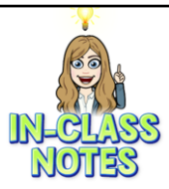


Name _____

Unit ___ Lesson _____ Due Date _____

# Chapter 5 Lesson 4 Notes and Examples

***Converting Rates***

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**Dimensional Analysis: including** units **of measurement as** factors **when you compute.**

***We want the** unwanted **units to cancel out so we are left with the units** we want**.**

**Converting units: Write the given unit** over one **. Then write your conversion factor as a** fraction**, putting the unwanted unit where it will** cancel out **. Then multiply the fractions.**

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**Complete each conversion. Round to the nearest hundredth. Must show conversion setup. Calculators OK.**

**1.** 10 cm ≈ ■ in.

$$\frac{10\text{ cm}}{1}\times\frac{1\text{ in}}{2.54\text{ cm}}$$

$$= 10 \div 2.54 \approx 3.94\text{ in}$$

OR $\frac{10\text{ cm}}{1}\times\frac{0.394\text{ in}}{1\text{ cm}} = 3.94\text{ in}$

**2.** 300 gal ≈ ■ L

$$\frac{300\text{ gal}}{1}\times\frac{3.785\text{ L}}{1\text{ gal}}$$

$$\approx 1135.5\text{ L}$$

**3.** 250 g ≈ ■ oz

$$\frac{250\text{ g}}{1}\times\frac{0.035\text{ oz}}{1\text{ g}} = 8.75\text{ oz}$$

**4.** 5.5 kg ≈ ■ lb

$$\frac{5.5\text{ kg}}{1}\times\frac{2.203\text{ lb}}{1\text{ kg}}$$

$$= 12.1165$$

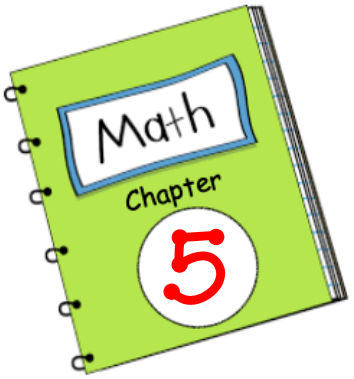
$$\approx 12.12\text{ lb}$$

**5.** 145 km ≈ ■ mi

**6.** 9.5 L ≈ ■ pt

**7.** 13 yd ≈ ■ m

**8.** 1095 mi ≈ ■ km




# TITLE: Ratios and Proportions

| Date | Lesson | Topic/Assignment |
|---|---|---|
| 11-9 | 1&2 | Ratios and Unit Rates Video Notes |
| 11-10 | 1&2 | Page 186 and 191 from Text |
| 11-10 | 1&2 | HW Practice WS |
| 11-11 | 3 | Intro to Complex Fractions Skills Practice WS |
| 11-16 | 3 | Complex Fractions Video Notes |
| 11-16 | 3 | Page 197 from Text |
| 11-19 | 3 | Color-by-number Thanksgiving WS |
| 11-30 | 4 | Unit Conversion Chart |
| 11-30 | 4 | Converting Units In-Class Notes |
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**November 30, 2020**