# Exam 2 Review Sheet

Date Mod

### Complete the work on loose-leaf to help you prepare for the exam. Be sure to show work where you can!

#### **Convert the following:**

- 1. 46.8 mg to grams
- 2. 9.73 hL to liters
- 3. 32.59 cm to km

- 4. 113.79 das to milliseconds
- 5. 0.086 kg to dg
- 6. 21.3 mL to liters

### Convert the following into or out of scientific notation:

- 1. 7800000 m
- 2. 0.000056 s
- 4.  $3.79 \times 10^{-5} \text{ mm}$
- 3.  $1.25 \times 10^3 \text{ cg}$

- 5. 21 s
- 6590 L 6.
- 0.001 g

- 8. 0.4 mL
- $9.99 \times 10^4 \text{ K}$
- 10.  $4.00 \times 10^{-7} \text{ dag}$

## Count the number of sig figs in the following:

1. 78.931 s

3.

2. 100.004 mg

0.00731 L

- 63.1000 J
- 5. 35600 m
- $4.38 \times 10^{18} L$ 6.

- 7.  $2.00 \times 10^3 \text{ cm}$
- 8. 150 g

#### Do the following operations and round to the correct number of sig figs:

- 1. 45.8 m + 12 m + 1.0005 m
- 2. 93.258 g 21.1 g
- 3. 0.123 m + 54 cm + 3.64 m
- 4. (7.31 kg) x (12.2 s)

- 5.  $45.9 \text{ g} \div 9 \text{ cm}^3$
- 6.  $406.1 \text{ cm} + 2 \times 10^2 \text{ cm}$
- 7. 100.0 m x 20.00 m x 3.000 m
- 8.  $547.3 \text{ g} \div 7.2 \text{ m}$

# **Complete the following problems:**

- 1. You are measuring the floor for new carpeting. The floor is 10.00 m long and 8.50 m wide. How much carpeting will you need to buy?
- 2. A piece of paper measures 21.65 cm wide and 27.48 cm long. What is the area of the piece of paper?
- 3. In art class you made a gorgeous painting. You decide to hang it in your bedroom. The painting is 96.57 cm wide and 74.12 cm long. How much area will the painting occupy on your wall?
- 4. The map hanging on my wall in class is 2.79 m wide and covers an area of 5.394 m<sup>2</sup>. What is the height of the map?
- 5. A fish tank is 50.80 cm long, 25.40 cm wide and 30.48 cm deep. What is the volume of this fish tank?
- 6. A rectangular container is filled with liquid. How much liquid is in the container if it is 11.11 cm wide, 9.99 cm deep and 10.10 cm long?
- 7. The world's largest aquarium is in Georgia. The biggest tank holds 2.4 X 10<sup>4</sup> m<sup>3</sup> of water. The tank is 86.56 m long and 38.40 m wide at it's widest. How deep is the tank?
- 8. An object is found to have a mass of 57.6 g. Find the object's density, given that its volume is 40.25 cm<sup>3</sup>.
- 9. The density of gold is 19.3 g/cm<sup>3</sup>. What is the volume, in cm<sup>3</sup>, of a sample of gold with a mass of 0.715 kg?