**Hwk #3 – All Things Metric**

**Given Thursday 8/15, Due Friday 8/16**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Prd. \_\_\_\_\_\_

***Answer in COMPLETE sentences!***

1. Why do scientists use a standard measurement system?

2. What are the SI units (also known as metric units) of measure for length, mass, and volume?

* Length –
* Mass –
* Volume -

3. What are the common tools scientists use to measure length, mass, and liquid volumes?

* Length –
* Mass –
* Volume -

4. Why is the mass of an object the same on the moon as it is on Earth, but the object’s weight is different?

***Use the King Henry Slide to figure these metric conversions:***

5. 53.47 g = \_\_\_\_\_\_\_\_\_\_kg 6. 74.12 mg = \_\_\_\_\_\_\_\_\_g

7. 0.0149 kg = \_\_\_\_\_\_\_\_\_\_g 8. 652.77 cg = \_\_\_\_\_\_\_\_\_ g

There is more on the other side! ☺

***We sometimes need to convert from English to Metric, or the other way around. Here is a simple conversion chart. Use it to convert these simple problems and show your work!***

|  |  |
| --- | --- |
| **English** | **Metric** |
| 1 inch | = 2.54 cm |
| 1 foot | = 30.48 cm |
| 1 mile | = 1.609 km |
| 1 gallon | = 3.785 l |
| 1 pound | = 0.373 kg |

9. 5 inches = \_\_\_\_\_\_\_ cm 10. 0.5 inches = \_\_\_\_\_\_\_\_ cm

11. 7.5 feet = \_\_\_\_\_\_\_\_ cm 12. 7.5 feet = \_\_\_\_\_\_\_\_\_\_m

13. 4 gallons = \_\_\_\_\_\_\_\_ l 14. 15.3 pounds = \_\_\_\_\_\_\_\_\_kg