Practice Problems: The Metric System

1. List the SI units
   a. Mass ____________
   b. Temperature ____________
   c. Energy ____________
   d. Length ____________
   e. Volume ____________

2. What’s longer, your little finger or 30 cm?

3. What’s longer? Your arm or 250 mm?

4. If the temperature outside were 35 °C, would you put on a coat or a swimming suit?

5. What would you wear if the temperature were 270 K?

6. What’s bigger? A drop of water or 2 mL?

7. Using a metric ruler, find some part of your hand that is 1 cm wide, 10 cm long, and 20 cm long. Record them here so you can use them if you need em!

Perform the following conversions

8. 1 g to kg
9. 1 kg to g
10. 547 g to kg
11. 1.34 km to m
12. 1.2 m to cm
13. 1.2 m to mm
14. 4.785 \times 10^{-3} m to mm
15. 7.5 \times 10^{-4} L to µL
16. 1.2 nm to m
17. 3.00 \times 10^{10} cm/sec to m/sec
18. 0.31 mL to L
19. −151 °C to K
20. 298 K to °C
21. 8 °C to K
22. 83 K to °C