Metric Conversions



The **3 base units** are : ______, _____, _____, _____,

The 6 prefixes are: _____, ____, ____, ____, ____, ____, ____, ____, ____,



To use the **Stair-Step method**, you will move the ______ the direction you have to move on the stairs.

Write the equivalent measurements: 1. 5 dm = _____ m 5. 75 mL = _____ kL 6. 6.5 m = cm 2. 38.2 dkg = _____ cg 3. 2500 dL = _____ kL 7. 2007 mg = _____ g 4. 2 mL = _____ L 8. 480 cm = _____ dkm

Comparing Quantities

Compare the measurements using <, >, or =.	**SHOW YOUR WORK**	

9. 63 cm 6 m	13. 1500 mL 1.5 L
10. 43 mg 5 g	14. 7 g 698 mg
11. 5 g 508 mg	15. 536 cm 53.6 dm
12. 3.6 m 36 cm	16. 1.1 hL 110 dkL

Answer the following questions using metric conversions.

- 17. Wanda needs to move 110 kg of rocks. How many hectograms is that?
- 18.Dr. O is working on her garden. She needs 1 kg of potting soil for her plants. She has 750 g. Does she have enough soil? Justify your answer.
- 19. One cereal bar has a mass of 37 g. What is the mass of 6 cereal bars? Is that more or less than 1 kg? Explain your answer.
- 20. Will a tablecloth that is 155 cm long cover a table that is 1.6 m long? Explain.
- 21. Alex rode 2 kilometers on his bike. His sister rode 3000 meters on her bike. Who rode the farthest and how much farther did they ride? (Answer in meters)

22. A rectangle has a length of 20 cm and a width of 1 meter. What is the perimeter of the rectangle? (Hint: Perimeter means you add up all the sides. Draw a picture if needed)

hm
g