GSE Algebra I	Unit 1 – Relationships between Quantities	1.8 – Notes
Name:	Date:	
	Metric Conversions	
	Metric Conversion: Stair-Step Method	
The Metric System	of measurement is based on multiples of	
The 3 base units ar	e:,,,,	·
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.

 2. 5 dm = _____m
 7. 75 mL = _____

 3. 2 mL = _____L
 8. 6.5 m = ______

 4. 38.2 dkg = _____cg
 9. 2007 mg

 5. .03 km = ____cm
 10.480 cm = ______

 6. 6035 mg = _____hg
 11.2500 dL = ______
 - 7. 75 mL = _____ kL
 - 8. 6.5 m = _____ cm
 - 9. 2007 mg = _____ g
 - 10.480 cm = _____ dkm
 - 11.2500 dL = _____ kL

12

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

12.	
13.63 cm 6 m	17.1500 mL 1.5 L
14.43 mg 5 g	18. 7 g 698 mg
15.5 g 508 mg	19. 536 cm 53.6 dm
16.3.6 m 36 cm	20.1.1 hL 110 dkL

Answer the following questions using metric conversions.

- 21. 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.
- 22. Wanda needs to move 110 kg of rocks. She can carry 10 hg each trip. How many trips must she make?
- 23. Dr. O is playing in her garden again. She needs 1 kg of potting soil for her plants. She has 750 g. How much more does she need?
- 24. Will a tablecloth that is 155 cm long cover a table that is 1.6 m long? Explain.
- 25. A dollar bill is 15.6 cm long. If 200 dollar bills were laid end to end, how many meters long would the line be?

GSE Algebra IUnit 1 – Relationships between Quantities1.8 – Notes26. The ceiling in Jan's living room is 2.5 m high. She has a hanging lamp that hangs
down 41 cm. Her husband is exactly 2 m tall. Will he hit his head on the hanging
lamp? Why or why not?