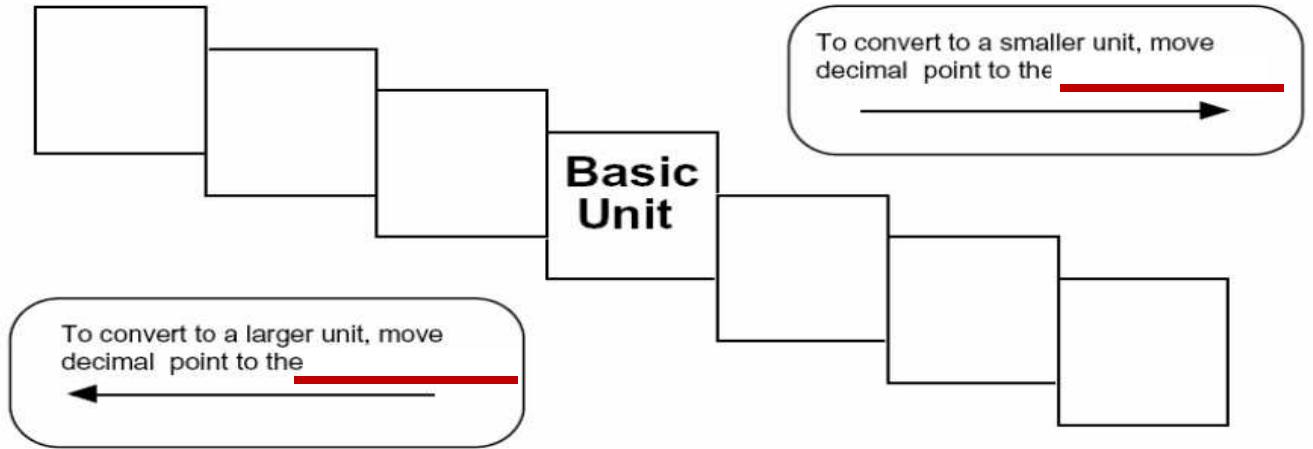


Name \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Metric Mania

## Metric Conversions

Fill in the boxes in the stair step diagram.



***I. Background:***

***II. How it works:***

***III. The Ladder Method:***

## ***Metric Conversions***

Fill in the boxes in the stair step diagram.

Try these conversions, using the ladder method.

$1000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

$1 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

$160 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

$14 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

$109 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

$250 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

Compare using  $<$ ,  $>$ , or  $=$ .

$56 \text{ cm} \bigcirc 6 \text{ m}$

$7 \text{ g} \bigcirc 698 \text{ mg}$

## ***Metric Conversions***

Write the correct abbreviation for each metric unit.

1) Kilogram \_\_\_\_\_

4) Milliliter \_\_\_\_\_

7) Kilometer \_\_\_\_\_

2) Meter \_\_\_\_\_

5) Millimeter \_\_\_\_\_

8) Centimeter \_\_\_\_\_

3) Gram \_\_\_\_\_

6) Liter \_\_\_\_\_

9) Milligram \_\_\_\_\_

Try these conversions, using the ladder method.

$10) 2000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

$15) 5 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

$20) 16 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

$11) 104 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

$16) 198 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

$21) 2500 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

$12) 480 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$17) 75 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

$22) 65 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

$13) 5.6 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

$18) 50 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$23) 6.3 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

$14) 8 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

$19) 5.6 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

$24) 120 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

**Compare using <, >, or =.**

25) 63 cm 6 m 27) 5 g 508 mg 29) 1,500 mL 1.5 L

26) 536 cm 53.6 dm 28) 43 mg 5 g 30) 3.6 m 36 cm

*T. Trimpe 2000 <http://sciencespot.net/>*

**Metric Mania Answer Keys**

**Conversion Practice**

NOTE: See PowerPoint Presentation for the stair step boxes.

1000 mg = 1 g

160 cm = 1600 mm

109 g = 0.109 kg

1 l = 1000 ml

14 km = 14000 m

250 m = .250 km

56 cm < 6 m

7 g > 698 mg

**Conversion Challenge**

1. kg

2. m

3. g

4. ml

5. mm

6. l

7. km

8. cm

9. mg

10. 2 g

11. 104000 m

12. 4.8 m

13. 5600 g

14. .8 cm

15. 5000 ml

16. 0.198 kg

17. 0.075 l

18. 0.5 m

19. 560 cm

20. 160 mm

21. 2.5 km

22. 65000 mg

23. 63 mm

24. 0.12 g

25. <

26. >

27. =

28. =

29. <

30. >