

Dougherty Valley HS Chemistry
Metric System Worksheet

Name:
Date:
Period:

Directions: Perform the following conversion as indicated.

Length:

1. 70 cm to m =	2. 49 cm to mm =
3. 8 m to mm =	4. 14.76 m to cm =
5. 8500 cm to m =	6. 20 mm to m =

Volume and Mass:

7. 6 L to cl =	8. 4.1 L to ml =
9. 8.7 L to ml =	10. 12.5 cl to L =
11. 925 mg to Kg =	12. 412. 6 Kg to g =

13. 8 cm x 7 cm x 6 m = _____ cm^3 also = _____ ml
14. 4 cm x 9 cm x 12 cm = _____ cm^3 also = _____ ml
15. 15 m x 12 cm x 5 cm = _____ cm^3 also = _____ ml

Convert: using Dimensional Analysis method (show your work)

16. 8000 g to Kg =
17. 25,000 g to Kg =
18. 2 mm to Km =
19. 12.42 Kg to g =
20. 4.2 g to mg =
21. One nickel weighs 5 grams. How many nickels are in 1 Kg of nickels?
22. What is the total mass of the following?

Potatoes	5 Kg
Flour	11Kg
Turkey	8000 g
Cereal	250 g
Candy	340 g
Medicine	550 mg
Total:	_____ kg _____ mg _____ g

$1\text{cm}^3 = 1\text{ml}$

23. The fundamental unit used to measure mass is _____.
24. What does the prefix "centi" mean? _____.
25. What does the prefix kilo mean? _____.

On the back of this sheet complete the following: **37 in/sec to miles/year**