Metric Worksheet # 2 (Derived Units)

The density of a substance was measured at 3.5 g/cm^3 . Convert the density into the following units. Show all relationships and cancellations of dimensional units.

kg	
cm ³	
2	
g	
hm ³	
3.	
dg	
dm ³	
mg	
m^3	
5.	
lig dom ³	
6.	
hg	
dm ³	
7.	
cg	
dam ³	
8	
8. Cg	
8. cg dm^3	
8. cg dm ³ 9.	
8. cg dm^3 9. dg	

10. How many dekagrams are there in 35 kilograms?.

and the other student measured 33 centimeters for the width . What was the area in dm^2 ?

11. Convert 22 hectometers to decimeters.

11. How many kilometers are there in 500 decimeters?

15. A rectangular solid has a length of .4 hectometers and a width of 30 cm and a volume of 2400 dm^3 .

- a). What is the height of the solid?
- b). What is the volume of the solid in cm^3 ?

- 12. How many cm^3 are there in 7 deciliters?
- 13. How many cm^3 of water are there in 248 ml of water?

Please show all conversions in the following two problems.

14. Two students measured a table to determine its area. One student measured .5 dekameters for the length

g	
km ³	

mg	
dm ³	

dag
cm ³

10. mg km³

11. 12. mg mm³

> 13. 14.