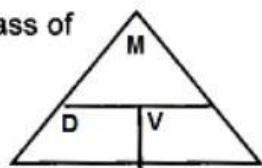


1. Find the density of a wooden block that has a volume of  $5 \text{ cm}^3$  and a mass of 30.5 g.

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

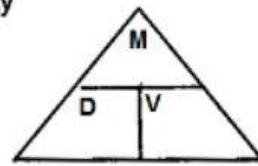
answer



2. What volume would a rock occupy if it had a mass of 31.2 g and a density  $10.4 \text{ g/cm}^3$ ?

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

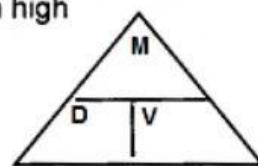
answer



3. Calculate the mass of a wooden block that is 4 cm long, 2 cm wide, 6 cm high and has a density of  $.5 \text{ g/cm}^3$ .

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer



4. In the table below are the mass and volume of some mineral samples. Calculate the density of each.

Sample	Mass	Volume	Density	Units
A	19.5 g	$6.54 \text{ cm}^3$	_____	$\text{cm}^3 \text{ g g/cm}^3$
B	12.4 g	$3.1 \text{ cm}^3$	_____	$\text{cm}^3 \text{ g g/cm}^3$
C	6.8 g	$3.4 \text{ cm}^3$	_____	$\text{cm}^3 \text{ g g/cm}^3$

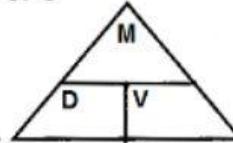
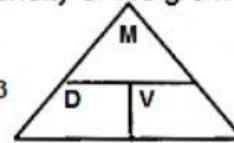
5. Which has the greater mass,  $10 \text{ cm}^3$  of steel with a density of  $7.8 \text{ g/cm}^3$  or  $5 \text{ cm}^3$  of mercury with a density of  $13.6 \text{ g/cm}^3$ ?

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer Steel

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer Mercury



Which has the greater mass, Steel or Mercury

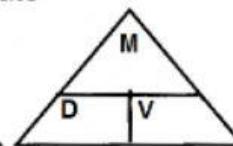
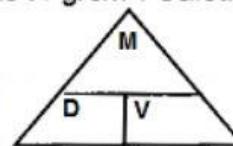
6. The density of oak is  $.7 \text{ g/cm}^3$ , and the density of pine is  $.4 \text{ g/cm}^3$ . Calculate the masses of a  $30 \text{ cm}^3$  block of each type of wood.

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer oak

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

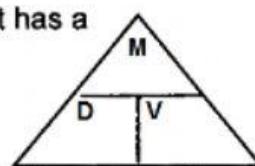
answer pine



7. How large a container would you need to hold 195 grams of a liquid that has a density of  $1.3 \text{ g/cm}^3$ ?

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer



8. A jeweler suspects that a piece of gold jewelry in his collection is a fake. He knows that the density of gold is  $19.3 \text{ g/cm}^3$ . If the volume of the piece of jewelry is  $6 \text{ cm}^3$ , and its mass is 109 g. is the piece a fake? Fake or Real

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

answer

There are 2 ways to solve this or

answer

Units  
 $\text{cm}^3 \text{ g g/cm}^3$

Find the density of the jewelry

