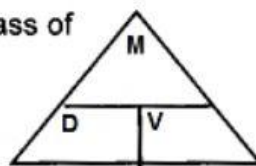


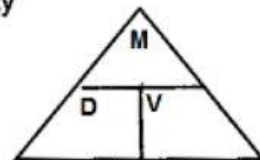
1. Find the density of a wooden block that has a volume of 5 cm^3 and a mass of 30.5 g .

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



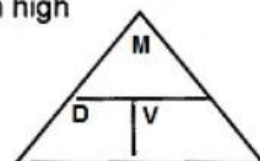
2. What volume would a rock occupy if it had a mass of 31.2 g and a density 10.4 g/cm^3 ?

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



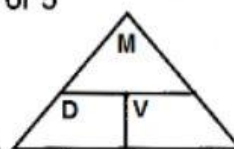
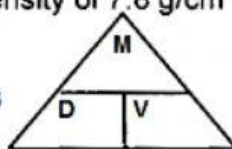
4. In the table below are the mass and volume of some mineral samples. Calculate the density of each.

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

5. Which has the greater mass, 10 cm^3 of steel with a density of 7.8 g/cm^3 or 5 cm^3 of mercury with a density of 13.6 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

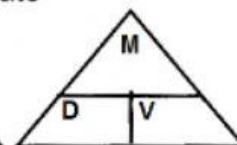
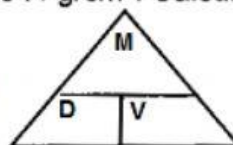


Which has the greater mass, Steel or Mercury

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 cm^3 block of each type of wood.

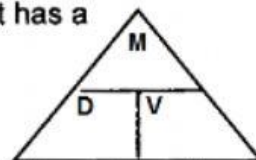
Units
 $\text{cm}^3 \text{ g g/cm}^3$
answer oak

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 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 g/cm^3 . If the volume of the piece of jewelry is 6 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

Find the volume if is real

There are 2 ways to solve this or

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

Find the density of the jewelry

