Name: _____

Do Now:

Bronze

Complete the table below. (answers to 1 dp where appropriate)

	Density (g/cm^3)	Mass (g)	Volume (cm^3)
Mercury	13.6	3000	
Iron		750	96.2
Lead	11.3		159.3
Gold	19.3	85	
Aluminium	2.7		55.6
Copper	8.9	275	
Marble		12350	4750
Teak		5000	7692
Concrete	2.3	15250	

Directions: Solve each problem below. Show your work and circle your answers.

Example: A student has a sample of aluminum that has a mass of 27 g and a volume of 10 cm^3. What is the density of aluminum?
Density = mass/volume

Density = 27 g / 10 cm^3

Density = 2.7 g/cm^3

1. A loaf of bread has a mass of 500 g and volume of 2500 cm^3. What is the density of the bread?

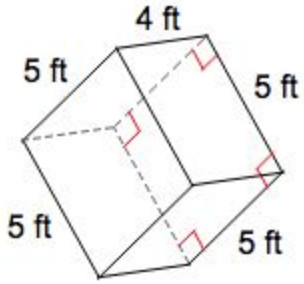
2. A block of wood has a mass of 6.0 g and a volume of 12.0 cm^3. What is the density of the block of wood?

3. The density of a substance is 4.0 g/cm^3. If a sample of the substance has a volume of 25 cm^3, then what is its mass?

4. You have a lead ball with a mass of 420 g. The density of lead is 10.5 g/cm^3. What is the volume of the ball?

Silver: Determine the volume of each solid. Use the given mass and the density table from the bronze section to determine what material each solid is made of.

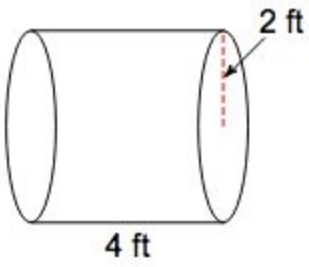
1)



Mass: 890
Solid:
Volume:

Material:

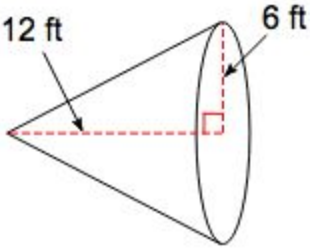
2)



Mass: 130.702
Solid:
Volume:

Material:

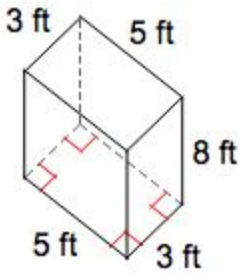
3)



Mass: 5112.01
Solid:
Volume:

Material:

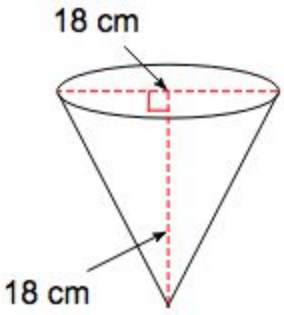
4)



Mass: 1632
Solid:
Volume:

Material:

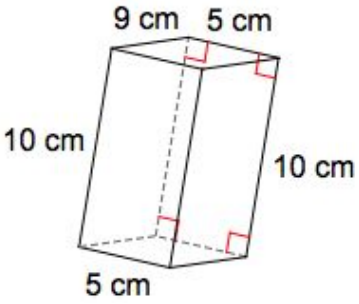
5)



Mass: 992.47
Solid:
Volume:

Material:

6)

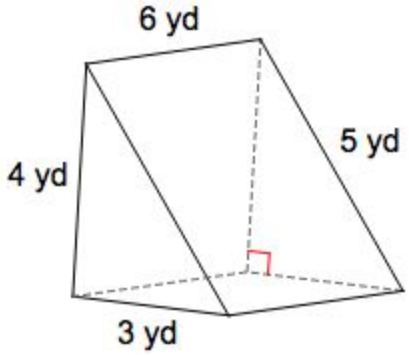


Mass: 8685
Solid:
Volume:

Material:

Gold: For each solid, identify the base shape and the volume. Use the volume and the given mass to determine the density.

1)

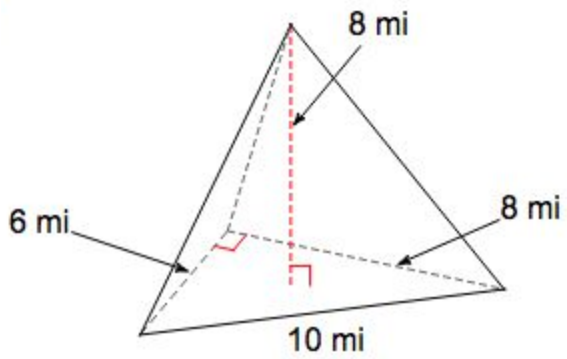


Mass: 0.0468
Solid:
Base Shape:
Volume:

Material:

SUBSTANCE	DENSITY (G/CM ^{3})
AIR	0.0013
WOOD (OAK)	0.85
WATER	1.00
ICE	0.93
ALUMINUM	2.7
LEAD	11.3
GOLD	19.3
ETHANOL	0.94
METHANOL	0.79

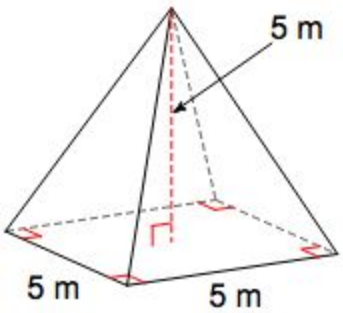
2)



Mass: 172.8
Solid:
Base Shape:
Volume:

Material:

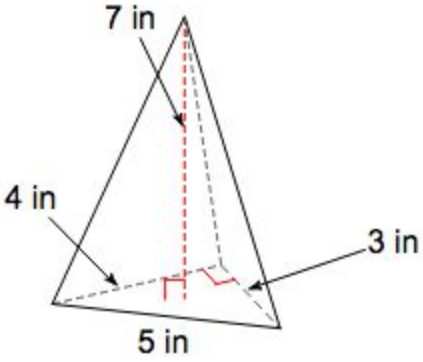
3)



Mass: 39.17
Solid:
Base Shape:
Volume:

Material:

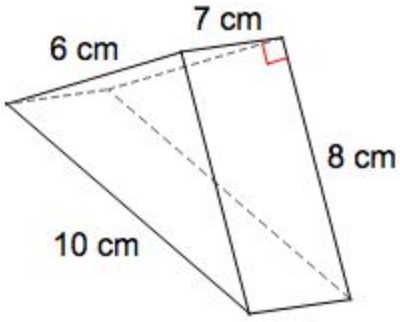
4)



Mass: 13.02
Solid:
Base Shape:
Volume:

Material:

5)



Mass: 132.72
Solid:
Base Shape:
Volume:

Material: