Name			
name			

1) If 842 pounds of Moon samples have been collected from lunar landings, what is the mass					
expressed in kilog A) 383 kg	grams? (Given: 1 kg = B) 1850 kg	2.20 lb) C) 309 kg	D) 3830 kg	E) 11,100 kg	
11) 000 Ng	b) 1000 kg	C) 507 Rg	2) 3030 <b>Kg</b>	2) 11,100 Kg	
2) Sterling silver is c	omposed of 92.5% silv	ver and 7.5% copper.	If a sterling silver ri	ng contains 6.55 g	2)
of silver, what is t	he mass of the ring?				
A) 0.0708 g	B) 0.491 g	C) 87.3 g	D) 7.08 g	E) 6.06 g	
3) Stainless steel is a	n alloy of iron, chrom	ium, nickel, and mar	nganese metals. If a 5	.00g sample is	3)
3) Stainless steel is an alloy of iron, chromium, nickel, and manganese metals. If a 5.00g sample is 2.00% manganese, what is the mass of manganese in the sample?					
A) 0.100 g	B) 0.00500 g	C) 0.0500 g	D) 0.200 g	E) 0.0100 g	
4) A sample of steel	is added to a 100-mL	graduated cylinder	with 45.0 mL of wate	r. Ifthe resulting	4)
-	mL, what is the volu	-		0	,
A) 89.5 mL	B) 100.5 mL	C) 44.5 mL	D) 10.5 mL	E) 55.0 mL	
	has a mass of 143.584	•	5 cm by 2.55 cm by 1.	25 cm. What is the	5)
	angular copper block	?			
A) 8.92 g/cm <sup>3</sup>					
B) $0.112 \text{ g/cm}^3$					
C) 29.0 g/cm <sup>3</sup>					
D) $28.4 \text{ g/cm}^3$					
E) 11.1 g/cm <sup>3</sup>					
	ontains four liquid lay			<del>-</del>	6)
	nL), ether $(d = 0.708 \text{ g})$	g/mL). If a cork stopp	er (d = 0.50  g/mL)  is	dropped into the	
•	oes it come to rest?				
A) on top of the	-				
•	m of the cylinder				
C) on top of the					
, <u>.</u>	e chloroform layer				
E) on top of the	e water layer				
7) What are the freezing point and boiling point of water on the Fahrenheit scale?					
A) 0 °F and 100					
B) -32 °F and 2					
C) 32 °F and 10					
D) 32 °F and 21					
E) 0 °F and 212	. —				

8) Calculate a length of copper wire having a diameter of 0.200 cm and a mass of 15.620 g. The density							
of copper is 8.92 g/cm <sup>3</sup> . The volume of wire equals $\pi d^2$ L/4, and $\pi = 3.14$ , $d = diameter$ , and L =							
length)		•					
A) 55.8 cm							
B) $1.80 \times 10^{-4}$ cm							
C) 1.75 cm							
D) $5.50 \times 10^{-2}$ cm							
E) $4.00 \times 10^{-4}$ cm							
9) The density of carbon tetrachloride is 1.60 g/cm <sup>3</sup> . What is the density of the liquid expressed in SI							
units (kg/m <sup>3</sup> )?		_		_			
A) $0.160 \text{ kg/m}^3$							
B) $1.60 \text{ kg/m}^3$							
C) 1.60 x 10 <sup>6</sup> kg/m	3						
D) $16.0 \text{ kg/m}^3$							
E) 1.60 x 10 <sup>3</sup> kg/m	3						
_/							
10) An Indy 500 car can travel 111 m/s. What is the speed of the car in miles per hour? (Given: 1 mi =							
1.61 km, and 1 h = 36		1	1	`	,		
A) 178 mi/h	B) 400 mi/h	C) 111 mi/h	D) 248 mi/h	E) 643 mi/h			