1. A block of metal has a mass of 14.0 g and a volume of 2.0 mL. What is the density?		8. A solid gold royal crown, density 18.4 kg/L, weighs 1.84 kg. If the crown were placed into a completely
A) 14.0 g/mLC) 2.0 g/mL	B) 7.0 g/mL D) 0.5 g/mL	full bathtub of water, what volume of water would be displaced?
2. Ethyl acetate, an org	anic liquid, has a density of 0.90 ass of 20. mL of ethyl acetate?	A) 1.84 L B) 18.4 L C) 10.0 L D) 1.00 L
A) 5.0 g B) 9.0 g C) 10. g D) 18 g E) 20. g		 E) 0.100 L 9. Molten iron metal (density 7.550 kg/L) is flowing out of a furnace, which originally contained 9,900. kg metal. So far, the steel workers have collected 40. ingots that are each 25.0 L in size. Assuming the density of iron stays the same, how many more ingots can they expect to collect?
 A large family car produces 8.0 x 10³ kg of carbon dioxide (CO₂) in a year, contributing to global warming. What volume of CO₂ is produced? The density of carbon dioxide is 2.0 g/L. (NOTE: grams/L not kilograms.) 		
A) 0.00025 L	B) $4.0 \times 10^3 \text{ L}$	A) 53 B) 12 C) 27 D) 17 E) 13
 C) 16,000 L E) 1.6 x 10⁷ L 	D) 4.0 x 10 ⁶ L	10. A batch of crude paracetamol weighed 370. kg when
4. A bottle of sulfuric acid has a mass of 3,620 g and a density of 1.81 g/mL. What is the volume?		wet with a solvent, ethanol. During the drying process, 100. L ethanol (density 0.790 kg/L) was removed. What mass of dry paracetamol remained?
 A) 0.500 L C) 1.81 L E) 3.62 L 	B) 1.00 LD) 2.00 L	A) 470 kgB) 449 kgC) 291 kgD) 270 kgE) 79 kg
5. A block of plastic has a mass of 2.72 g and a volume of 3.13 mL. What is the density?		
 A) 0.869 g/mL C) 1.15 g/mL E) 8.51 g/mL 	B) 0.933 g/mLD) 1.37 g/mL	
6. A sample of helium gas has a volume of 1.37 L. Helium has a density of 0.179 g/L. What is the mass in grams?		
A) 0.131 g	B) 0.245 g	
C) 1.37 g E) 7.65 g	D) 4.08 g	
7. A bottle contains 39.5 g of liquid perfluorooctane (density 1.77 g/mL). What is the volume of the liquid?		
A) 0.0448 mLC) 22.3 mLE) 69.9 mL	B) 10.1 mLD) 47.0 mL	