Name: Date:] [Na	me:	Date:
Density problems Solve the following problems. Read the information carefully. Show all your calculations. Don't forget to write the units.			De l Sol ^y Shc	nsity pro ve the fo ow all you	oblems Illowing problems. Read the information carefully. ur calculations. Don't forget to write the units.
1.	A block of aluminum occupies a volume of 150 cm ³ and weighs 40.5 g. What is its density?		1.	Mercury holds e cylinder	y metal is poured into a measuring cylinder that exactly 22.5 cm ³ . The mercury used to fill the r weighs 306 g. Calculate the density of mercury.
2.	The density of ethyl alcohol is 0.789 g/cm ³ . What is the weight of the ethyl alcohol that exactly fills a 200 cm ³ beaker?		2.	The der of 250	nsity of benzene is 0.876 g/cm ³ . What is the mass cm ³ of benzene?
3.	A block of lead has dimensions of 4.5 cm by 5.2 cm by 6 cm. The block weighs 1.58 kg. Calculate the density of lead.		3.	A rectar dimens What is	ngular block of copper metal weighs 1.89 kg. The ions of the block are 8.4 cm by 5.5 cm by 4.6 cm. the density of copper?
4.	28.5 g of iron are added to a measuring cylinder containing 45.5 cm ³ of water. The water level rises to the 49.1 cm ³ mark. Calculate the density of iron.		4.	A beak carbon carbon the den	er that weighs 345.8 g is filled with 225 cm ³ of tetrachloride. The weight of the beaker and tetrachloride is found to be 703.55 g. Calculate sity of carbon tetrachloride.
5.	A silver cube has a volume of 238 cm ³ and weighs 2.5 kg. What is the density of silver? If the cube had been made of gold, which has a density of 19.3 g/cm ³ , how much heavier or lighter would it be?		5.	A golde kg. Wha made c much h	n cube has a volume of 238 cm ³ and weighs 4.6 at is the density of silver? If the cube had been of silver, which has a density of 10.5 g/cm ³ , how eavier or lighter would it be?
Mark: /10					Mark: /10