Practice Problems for SI Base Units, Prefixes, and Derived Due: Tomorrow beginning of class, if not done in class today. Show A 1. List the base unit (no prefix needed) that would be used to measure the following a reaction a. Perimeter of a rectangle b. Temperature of a liquid during a reaction c. Time between waves at the beach d. Mass of 25 quarters e. Amount of a substance 2. For the following questions, fill in the blanks by determining the relationsh	Units LL work. owing things:
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2. For the following questions, fill in the blanks by determining the relationsh	
prefixes. $Example:$ 100 centimeters = 1 meter	ip between the two
akilometers = meter d megagra	$m = _\grams$
b centimeters = kilometer e milligra	ms =megagra
c milligrams = gram f deciliters	= liter
3. For the following questions, give the abbreviation for the unit:	
a. centimeter d. microgram	
b. millisecond e. megameter	
c. kilogram f. gigaliter	
4. What is the density of a block of marble that occupies 310 cm^3 and h	as a mass of 853 gʻ

- 5. Diamond has a density of 3.26 g/cm³. What is the mass of a diamond that has a volume of 0.35 cm³?
- 6. What is the volume of a sample of liquid mercury that has a mass of 76.2 g, given that the density of mercury is 13.6 g/mL?