(6)B. Fill in the following chart:

Prefix	Numerical meaning (in fraction or decimal form)		
Milli (m)	4.		
Centi (c)	5.		
Kilo (k)	6.		

(8)C. Choose base units from the word bank below to show what each measures:

Foot (ft)	Gram (g)	Meter (m)	Second (s)
Gallon (gal)	Liter (I)	Second (s)	Slug (sl)

Physical quantity	Base metric unit	Base English unit
Volume	7.	8.
Time	9.	10.
Mass	11.	12.
Distance/length	13.	14.

D. Fill in the blanks with the correct answers. Use the space to the right or on back to show your work:

(2)15. 629 centimeters = _____ meters.

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(2)16. 68.9 kilograms = ______ grams.

(2)17. 45 milliliters = _______ liters.

(2)17. 45 milliliters = _______ liters.

(2)18. 20 feet = _______ inches (1 foot = 12 inches)

(2)19. 21 yards = _______ feet (1 yard = 3 feet)

(4)E. Identify each illustration as "atoms" or "molecules":

(5)E. Identify each illustration at the provide each illustrating each illustration at the provide each illustrating e

(4)21. I need a powerful bathroom cleaner that uses hydrochloric acid (HCI) as its main active ingredient. How can I be certain which cleaner is the most powerful before buying? Circle the letter of the correct answer.

- a. Look at the size of the bottle (ounces of cleaner in the bottle)
- b. Look at the amount of HCI in each bottle (ounces of HCI in the bottle)
- c. Look at the percentage of HCI in each bottle (ounces of HCI out of total ounces of liquid)
- d. Look at the advertising claims on the shelf

(2)22. You decide to combine two elements to make molecules. Will the new substance have all the same properties as the elements you started?

(up to 4 points) Bonus: What is the difference between weight and mass?