

Name _____

Date _____

Units of Volume and Mass Lesson and Practice Sheet

Write the amount in liters or grams by 'translating' the prefixes to a fraction and then a decimal.

$$8 \text{ cL} = \underline{\quad} \text{ L} = \underline{\quad} \text{ L}$$

Using of Mass

1 kilogram	kg	1,000 grams
1 hectogram	hg	100 grams
1 decagram	dag	10 grams
1 gram	g	the basic unit
1 decigram	dg	1/10 of a gram
1 centigram	cg	1/100 of a gram
1 milligram	mg	1/1000 of a gram

Using of Volume

1 kiloliter	kL	1,000 liters
1 hectoliter	hL	100 liters
1 decaliter	daL	10 liters
1 liter	L	the basic unit
1 deciliter	dL	1/10 of a liter
1 centiliter	cL	1/100 of a liter
1 milliliter	mL	1/1000 of a liter

According to given table:

$$1 \text{ centiliter} = 1/100 \text{ of a liter} = 0.01 \text{ liter}$$

$$\begin{aligned} \text{So, liters in } 8 \text{ cL} &= 1/100 \times 8 \\ &= 0.01 \times 8 \\ &= 0.08 \end{aligned}$$

Answer:

$$8 \text{ cL} = \underline{8/100} \text{ L} = \underline{0.08} \text{ L}$$

Practice Problems

1 $9 \text{ dg} = \underline{\quad} \text{ g} = \underline{\quad} \text{ g}$

2 $6 \text{ dL} = \underline{\quad} \text{ L} = \underline{\quad} \text{ L}$

