HESI A2

Conversions Cheat Sheet

METRIC TABLE

MASS			
1,000 micrograms (mcg)	=	1 milligram (mg)
1,000 milligrams (mg)	=	1 gram (g)
1,000 grams (g)	=	1 kilogram (kg)
2.2 pounds (lbs)	=	1 kilogram (kg)

VOLUME			
30 milliliters (ml)	=	1 ounce (oz)
1 millimeters (ml)	=	1 cubic centimeters (cc)
1 teaspoon (tsp)	=	5 millimeters (ml)
1,000 millimeters (ml)	=	1 Liter (L)
3 teaspoons (tsp)	=	1 tablespoon (tsp)
1 tablespoon (tbsp)	=	15 milliliters (ml)
2 tablespoons (tbsp)	=	1 ounce (oz)

Examples

If a doctor is converting a medical dose for a prescription of 2 grams into milligrams, what will the dosage be?

a. 200mg
b. 0.2 mg
c. 2000mg
d. 20mg

1,000 mg = 1g

2 × 1,000 = 2,000 mg

How much hydrochloric acid (HCL) is necessary to make 25 liters of a 5:1 solution of water (in liters) to HCL (in grams)?

$$\frac{5\,l}{1\,g} = \frac{2.5\,l}{x(g)}$$

$$\frac{5\,l}{1\,g} \times \frac{2.5\,l}{x(g)}$$

Multiply Across
1×2.5 is 2.5

$$\frac{\cancel{5}\,x(g)}{\cancel{5}} = \frac{2.5g}{5}$$ Then Divide by 5

$$x = 0.5g$$