



Math Study Strategies

Nursing Math

Apothecary Unit of Measures



Liquids

$$1000\text{ml} = 1\text{L}$$

$$4\text{mL} = 1\text{dram (dr)}$$

$$1\text{mL} = 15 \text{ or } 16 \text{ minim (m)}$$

$$1 \text{ fluid ounce (fl. oz.)} = 8 \text{ fluid drams}$$

$$1 \text{ tablespoon (tbsp.)} = 15\text{mL}$$

$$1 \text{ teaspoon (tsp.)} = 5\text{mL}$$

$$1 \text{ dram} = 5\text{cc}$$

$$1 \text{ desertspoon} = 8\text{mL}$$

$$1 \text{ teacup} = 6\text{oz} = 180\text{mL}$$

$$1 \text{ glass} = 8\text{oz} = 24\text{mL}$$

$$1 \text{ drop (gtt)} = 1 \text{ minim} = 0.06\text{cc}$$

$$1 \text{ pint (pt)} = 16 \text{ ounces (oz)} = 500\text{cc}$$

$$1 \text{ quart (qt)} = 32\text{oz} = 1000\text{cc}$$

$$15 \text{ minims} = 1\text{cc} = 1\text{mL}$$

$$1\text{gallon (gal)} = 4\text{qt} = 128\text{oz}$$

1part per million (ppm) is a frequently used term in drug residue discussion ex: 1 mg/kg

Solids

$$1000\text{mg} = 1\text{g}$$

$$1\text{g} = 15\text{gr}$$

$$1\text{gr} = 60\text{mg}$$

$$1\text{kg} = 2.2\text{lb}$$

$$1\text{mg} = 1000\text{mcg}$$

$$1\text{lb} = 16\text{oz}$$

$$1\text{oz} = 28\text{g}$$

$$100\text{mg} = 1 \frac{1}{2}\text{gr}$$

$$1\text{mg} = \frac{1}{60}\text{gr}$$

$$0.4\text{mg} = \frac{1}{150}\text{gr}$$