

Medical Math Pretest

Answer Key

1. Write the abbreviation for and identify each of the following as metric, US household, or apothecary systems of measure.

Abbreviation		Measurement System
tsp	teaspoon	US Household
kl	kiloliter	Metric
gr	grain	Apothecary

2. 110 lb = 50 kg
3. 500 mL = 0.5 qt
4. 7 fl oz = 210 mL
5. 80 gr = 4.8 g
6. If 300 jellybeans cost you x dollars. How many jellybeans can you purchase for 50 cents at the same rate?
A. 150 / x
7. You have orders to give a patient 20 mg of a certain medication. The medication is stored 4 mg per 5-mL dose. How many milliliters will need to be given?
C. 25 mL

8. Complete the following statements:

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

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

$$30 \text{ cc} = 1 \text{ fl oz}$$

$$2.54 \text{ cm} = 1 \text{ inch(s)}$$

9. A pharmacist needs to make 100 capsules, each containing 1 mg of a drug. The drug comes in a bulk package of 500 grams. How many grams of the drug will be needed to make the capsules?
B. 0.1 gram

10. Complete the following proportions:

$$\frac{8 \text{ oz}}{16 \text{ Tablespoons}} = \frac{x \text{ oz}}{3 \text{ Tablespoons}} \quad x = 1.5 \text{ oz}$$

$$\frac{4 \text{ fl oz}}{120 \text{ cc}} = \frac{1 \text{ fl oz}}{x \text{ cc}} \quad x = 30 \text{ cc}$$

$$\frac{1 \text{ ml}}{x \text{ L}} = \frac{5 \text{ ml}}{.005 \text{ L}} \quad x = .001$$

$$\frac{x}{300} = \frac{9}{12} \quad x = 225$$