

Dosage Calculation Worksheet #1

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1. An individual is taking cough suppressant that contains codeine 10 mg in 5 mL. If the individual took 12 tsp of the medication during a 24-hour period, how many milligrams of codeine would have been taken? 1 tsp = 5 mL

$$12 \text{ tsp} \times \frac{5 \text{ mL}}{1 \text{ tsp}} = 60 \text{ mL} \times \frac{10 \text{ mg}}{5 \text{ mL}} = \boxed{120 \text{ mg}}$$

2. The nurse is to give 10 mcg/kg/min of a medication. The patient weighs 80 kg. How many mcg will the nurse give in 15 minutes?

$$80 \text{ kg} \times \frac{10 \text{ mcg}}{1 \text{ kg}} = 800 \text{ mcg} \times 15 \text{ mins} = \boxed{12,000 \text{ mcg}}$$

3. Calculate the individual dose in mg a medication to be administered in six divided doses if a patient weighs 35 pounds and is to be given 40 mg/kg/day. Round kg to nearest 10th.

$$35 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 15.9 \text{ kg} \times \frac{40 \text{ mg}}{1 \text{ kg}} = \frac{636 \text{ mg}}{\text{day}} \times \frac{1 \text{ day}}{6 \text{ doses}} = \boxed{106 \text{ mg/dose}}$$

4. The medication order is to administer naloxone (Narcan) 1.5 mcg/kg STAT. The child weighs 36.3 pounds. How many mg of Narcan will the nurse give to the child? 1 mg = 1000 mcg

$$36.3 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 16.5 \text{ kg} \times \frac{1.5 \text{ mcg}}{1 \text{ kg}} = 24.75 \text{ mcg} \times \frac{1 \text{ mg}}{1000 \text{ mcg}} = \boxed{0.025 \text{ mg}}$$

5. An individual is taking an antibiotic that contains penicillin (PCN) 180 mg in 5 mL. If the individual took 21 tsp of the medication in 7 days, how many milligrams of PCN would have been taken? 1 tsp = 5 mL

$$21 \text{ tsp} \times \frac{5 \text{ mL}}{1 \text{ tsp}} = 105 \text{ mL} \times \frac{180 \text{ mg}}{5 \text{ mL}} = \boxed{3,780 \text{ mg}}$$

6. Medication order: Cephalexin 375 mg PO tid. How many grams will the patient receive each 24 hours? 1 g = 1000 mg

$$375 \text{ mg} \times \frac{3 \text{ doses}}{\text{day}} = 1125 \text{ mg/day} \quad 1125 \text{ mg} \times \frac{1 \text{ g}}{1000 \text{ mg}} = \boxed{1.125 \text{ g}}$$

7. Medication order: Unipen 750 mg IM q6h

Available: Unipen add 4 mL sterile water to make 1 g/2.5 mL

How many mL of the reconstituted solution will you administer?

$$\frac{1 \text{ g}}{2.5 \text{ mL} + 4 \text{ mL}} = \frac{1 \text{ g}}{6.5 \text{ mL}}$$

$$0.750 \text{ g} \times \frac{6.5 \text{ mL}}{1 \text{ g}} = 4.875 = \boxed{4.9 \text{ mL}}$$