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(1M2)

Dosage Calculation Worksheet #1

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? codeine: 10mg / 5mL
   12 tsp = 5mL (12) = 60mL total
   60mL / 5mL
   = 12 (10mg) = 120mg of codeine

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?
   10mcg/kg (80kg) = 800 mcg/min
   15min (800mcg)
   = 12000mcg

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 lbs / 2.2kg = 15.90 ≈ 15.9 kg
   40mg/kg (15.9 kg) = 636mg per day →
   636mg / 6 = 106mg per 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? 36.3 lbs / 2.2kg = 16.5kg
   1.5mcg/kg (16.5kg) = 24.75 mg ≈ 24.8mcg
   = 24.8mcg → mg = "1 to L" = 24.8
   = 0.02mg

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?
   (PCN): 180mg per 5mL
   21 tsp = 5(21) = 105mL total
   105 / 5
   = 21 (180mg) = 3780mg in 7 days.