

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?

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array} \quad \begin{array}{r} 60 \\ \times 10 \\ \hline 600 \text{ mg} \end{array} \quad 600 \text{ mg}$$

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?

$$10 \text{ mcg} / 80 \text{ kg} / 15 = 12,000 \text{ mcg}$$

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.

$$35 \text{ lb} \approx 15.9 \text{ kg} \quad 40 / 15.9 / 6 = 636 \text{ mg} = 106 \text{ mg}$$

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?

$$\frac{36.3}{2.2} = 16.5 \text{ kg} / 1.5 \text{ mcg} = 24.75 \text{ mcg} = 24.8 \text{ mcg}$$

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?

$$21 / 5 \text{ mL} = 105 / 180 = 18,900 \text{ mg}$$

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

$$\frac{375 \times 3}{1000} = 1.1 \text{ g}$$

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?

$$\frac{750 \text{ mg} / 2.5}{1 \text{ g}} = \frac{1875}{1000} = 1.9 \text{ mL}$$