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?

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?

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.

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?

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?

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

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?

8. Medication order: Zaroxolyn 7.5 mg PO bid. Available: Zaroxolyn 5 mg tablets. How many tablets will you administer?

O: Zaroxolyn 7.5mg PO (x2)
A: Zaroxolyn 5mg tablets

$\frac{7.5\text{mg} \times 1\text{tablet}}{5\text{mg}}$

Per dose: 1.5 tablets Per day: 3 tablets x 3

9. Medication order: Erythromycin 125 mg via gastric tube tid. Available: Erythromycin 250 mg/5 mL
How many mL will you administer?

O: Erythromycin 125mg (x3)
A: 250mg/5mL

$\frac{125\text{mg} \times 5\text{mL}}{250\text{mg}} = \frac{625}{250} =$

2.5mL

10. Medication order: Capoten 100 mg. Available: Capoten 0.1 g tablets. How many tablets will you administer?

O: Capoten 100mg
A: Capoten 0.1g tablets
0.1g x 1,000 = 100mg

$\frac{100\text{mg} \times 1\text{tablet}}{100\text{mg}} =$

1 tablet

11. Change 128 oz to L. Round final answer to a whole number.

128 oz = ? L 1 oz = 30 mL 4L
128 x 30 = 3,840 mL 3,840 ÷ 1,000 =

12. Medication order: heparin 2500 units/hr. Drug available: heparin 20,000 units in 250 mL D5W. At what rate will you set your pump?

O: heparin 2500 units/hr
A: heparin 20,000 units/250 mL
31.25 mL/hr

$\frac{2500\text{units} \times 250\text{mL}}{20{,}000\text{units}}$
$\frac{625{,}000}{20{,}000} =$

13. Penicillin G Procaine (Wycillin) contains 300,000 units/mL. How many units would there be in 2.5 mL?

300,000 units/mL

$\frac{300{,}000\text{ units}}{1\text{mL}} \times \frac{x}{2.5\text{mL}} = \boxed{750{,}000\text{ units}}$

14. The preoperative order is for atropine sulfate 0.15 mg. The supply of atropine sulfate is 0.4 mg/mL. How many mL will you prepare?

O: atropine sulfate 0.15mg
A: atropine sulfate 0.4mg/mL
mL = ? $\boxed{0.38\text{mL}}$

$\frac{0.15\text{mg} \times 1\text{mL}}{0.4\text{mg}}$

15. Medication order: Atropine 0.4 mg Sub-Q now. Drug available: atropine 5 mg per 10 mL. How many mL will you administer?

O: Atropine 0.4mg
A: Atropine 5mg/10mL
mL = ? 0.8mL

$\frac{0.4\text{mg} \times 10\text{mL}}{5\text{mg}}$