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?

10mg/5mL

12tsp- mL = 60mL, 5mL into 60mL is 12

12 x 10 = **120mg of codeine would be 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?

10mcg x 80 kg x 15minutes = **120,000mcg**

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.

35lb = 15.9kg

40mg x 15.9kg = 636mg

636mg / 6 = **106mg**

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?

36.3lbs = 16.5kg

1.5mcg x 16.5kg = 24.75mcg

24.75mcg / 1000 to get mg = **0.02 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?

180mg/5mL = 180mg/1tsp

21tsp x 180mg = **3780mg in 7 days**

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

375mg x 3 = 1125mg for 24hours

1125mg / 1000 = **1.1 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?

1g = 1000mg

750mg / 1000mg x 2.5mL = **1.9mL per dose**

0.475mL every 6 hrs for 24hrs

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

7.5mg /5mg = **1.5 tablets per dose**

1.5tablets x 2 = **3 tablets daily**

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

125mg / 250mg x 5mL = **2.5mL per dose**

2.5mL x 3 = **7.5mL daily**

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

0.1g = 100mg = **1 tablet**

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

128oz = **4L**

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?

2500units/hr / 20,000units x 250mL = **31.25 mL/hr**

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

300,000units/mL x 2.5mL = **750,000units**

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?

0.15mg / 0.4mg x 1mL = **0.375mL**

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

0.4mg / 5mg x 10mL = **0.8mL**