

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?

$$1 \text{ tsp} = 5 \text{ ml}$$

$$12 \times 10 =$$

120 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?

$$80 \times 10 \times 15 =$$

12000 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 10<sup>th</sup>

$$35 / 2.2 = 15.9$$

$$40 \times 15.9 \times 1/6 =$$

106.1 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?

$$36.3 / 2.2 = 16.5$$

$$16.5 \times 1.6 =$$

24.8 mcg

4. 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

21x180=

3780 mg

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

375x3=

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?

750x2.5/1=

1.9 mL

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

7.5x1/5=

1.5 Tablets per dose 3 per day

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

125x5/250=

2.5 mL per dose 7.5 per day

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

100 mg=.1 g

1 Tablet

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

8 oz=240 ml

$128/8= 16$

$16 \times 240/1000=$

4 L

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?

$2500 \times 250/20000=$

31.25 Units per hour

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

$300000 \times 2.5=$

750000 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?

$.15 \times 1/.4=$

0.375 mL

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

$0.4 \times 10/5=$

0.8 mL