

### Dosage Calculation Worksheet #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?

120 mg

1tsp = 5 mL  
12(5) = 60  
12(10)

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(80)

800

12,000 mcg

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.

35/2.2 = 15.9 kg  
15.9 x 40 =

636 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 kg x 1.5 = 24.75 mcg

0.02475 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?

1tsp = 5 mL

21(180) =

3,780 mg

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

1.125 g

0.375(3)

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?

750 mg  
1g/2.5 mL  
1000mg/2.5 mL

$\frac{DV}{H} = \frac{750(2.5)}{1000} = 1.875$

1.9 mL

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

7.5 mg  
 $\frac{7.5(1)}{5} =$

5 mg/1 tablets

1.5 tablets

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

125 mg  
250mg/5 mL

125(5)  
250

2.5 mL

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

0.1 g

1 tablet

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

$$1 \text{ L} = 32 \text{ oz} \quad 128 / 32 = 4 \text{ L}$$

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?

$$\frac{2500}{20,000} / \frac{250}{250} \quad \frac{2500}{20,000} \times 250 \text{ mL}$$

31.3 units/hr

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

$$300,000 (2.5)$$

750,000 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?

$$\frac{0.15 \text{ mg}}{0.4 \text{ mg/mL}}$$

$$\frac{0.15}{0.4}$$

0.38 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?

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

$$\frac{0.4 (10)}{5}$$

0.8 mL

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