30mL = 1 oz = 2 TBSP = 6 TSP

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?

$\frac{30}{6} - \frac{60}{12} \times 5mL = 12 \times 10$ (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?

10 mcg × 80kg × 15 MIN = (12,000 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.

40mg × 15.9kg = 636/6 = (106 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?

1.5mcg × 16.5kg = 24.75mcg = (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?

$\frac{30\,mL}{6\,TSP} \cdot \frac{105\,mL}{21\,TSP} / 5mL = 21 \times 180 = (3,780\,mg)$

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

375mg × 3 = 1,125 mg = (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?

$\frac{750\,mg}{1,000\,mg} \times 2.5mL = (1.9\,mL)$ PER DOSE

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

7.5/5 = 1.5 TABS

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

$\frac{125\text{ mg}}{250\text{ mg}} \times 5\text{ mL} = 2.5\text{ mL}$

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

100mg = 0.1g → 1 TAB

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

$\frac{30\text{mL}}{1\text{oz}} \quad \frac{x}{128\text{oz}} = 3,840\text{mL} = 4\text{L}$

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?

$\frac{2,500\text{ UNITS}}{20,000\text{ UNITS}} \times 250\text{ mL} = 31.3\text{ mL}$

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

300,000 UNITS
× 2.5 mL
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?

$\frac{0.15\text{mg}}{0.4\text{mg}} \times 1\text{ mL} = 0.38\text{mL} \rightarrow 0.4\text{mL}$

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

0.4mg/5mg × 10 mL = 0.8mL