Additional Med Math Practice Problems

Identify how many tablet(s)/capsule(s) the nurse will prepare per dose:

1. Order: dexamethasone 1.5 mg PO BID

    Supply: tablet 0.75 mg

2. Order: digoxin 0.25 mg PO daily

    Supply: tablet 0.5 mg

3. Order: ampicillin 0.5 g PO q6 hours

    Supply: capsules 250 mg

4. Order: prednisone 10 mg PO TID

    Supply: tablet 2.5 mg

5. Order: nifedipine 20 mg PO BID

    Supply: capsules 10 mg

6. Diphenhydramine 5 mg/kg/day to be given every 6 hours. Child weighs 44 lbs. How many mg/dose?

7. Prednisone 2 mg/kg/day to be given every 12 hours. Child weighs 22 lbs. How many mg/dose?

8. Digoxin 0.010 mg/kg/day to be given every 12 hours. Child weighs 44 lbs. Available elixir is 0.05 mg/mL. How many mL/dose?

9. Child weighs 18 kg. Calculate hourly rate of IVF, round to the nearest whole number.

10. Child is 21 kg and 116 cm tall. Calculate their body surface area.

11. Child is 42 lbs. and 36 inches tall. Calculate their body surface area. Round to the nearest hundredth.

12. Order: Amoxicillin 70 mg q8

    Weight: 20 lbs

    Supply: Amoxicillin 125 mg/5 mL

    Literature: 20-40 mg/kg/day in divided doses every 8 hours

    Determine if the order is safe and calculate the amount needed. Round to the nearest hundredth.

13. Order: Ferrous sulfate 200 mg PO TID

    Weight: 30 kg

    Supply: bottle of 125 mg/5 mL

    Literature: 600 mg/day divided TID

    Determine if the order is safe and calculate the amount needed. Round to the nearest hundredth.

14. Order: Metoclopramide 5 mg PO q6
    Weight: 30 kg
    Supply: syrup 5 mg/5 mL
    Literature: 0.1 – 0.2 mg/kg/dose up to QID
    Determine if the order is safe and calculate the mLs needed.

15. Order: Phenytoin 60 mg PO BID
    Weight: 12 lbs 8 oz
    Supply: suspension 30 mg/5 mL
    Literature: 4-8 mg/kg/day divided into 2 doses. Maximum dose is 300 mg/day
    Determine if the order is safe and calculate the mg needed.

16. Order: Digoxin 100 mcg PO BID

Weight: 32 lbs.
Supply: 0.05 mg/mL
How many mL does the nurse draw up per dose?