

## Practice Math Quiz

First semester instructors (Nursing 117) will review the math skills during the first three weeks of class. Third Semester students (Nursing 217-including LVNs), however, are tested on these skills the first day of class.

1. gr  $\frac{1}{4}$  = \_\_\_\_\_ mg
2. gr  $\frac{1}{200}$  = \_\_\_\_\_ mg
3. 45 lbs = \_\_\_\_\_ kg
4. 20 kg = \_\_\_\_\_ lb
5. 0.25g = \_\_\_\_\_ mg
6. 0.5mg = \_\_\_\_\_ mcg
7. gr ii = \_\_\_\_\_ mg
8. 8 oz = \_\_\_\_\_ mL
9. 400 mcg = \_\_\_\_\_ mg
10. 1000 mg = \_\_\_\_\_ g
11. The physician orders atropine gr  $\frac{1}{200}$  IM. You have a drug labeled atropine 0.4 mg/mL. How many mL will you administer?
12. The physician orders Levothroid (levothyroxine) 0.1 mg po. You have a drug labeled 100 mcg/tab. How many tabs will you administer?
13. The physician orders chloral hydrate 0.5mg po HS prn for sleep. You have a drug labeled 500 mcg per 10 mL. How many mL will you administer?
14. The physician orders Lanoxin (digoxin) 0.375 mg IV now. You have a drug labeled 500 mcg in 2 mL. How many mL will you administer?
15. The physician orders morphine sulfate gr  $\frac{1}{4}$  po q4h prn pain. You have a drug labeled morphine sulphate 15 mg per tab. How many tablets will you administer?

16. The physician orders 1000 mL of D<sub>5</sub>W over 8 hours. The drop factor is 12 gtts/mL.
- The IV is infused by gravity. Calculate the flow rate.
  
  - The IV is infused by pump. Calculate the flow rate.
17. The physician orders 500 mL NS over 8 hours. The drop factor is 15 gtts/mL.
- The IV is infused by gravity. Calculate the flow rate.
  
  - The IV is infused by pump. Calculate the flow rate.
18. The physician orders 2500 mL of D<sub>5</sub> 0.45NS over 24 hours. The drop factor is 15 gtts.
- The IV is infused by gravity. Calculate the flow rate.
  
  - The IV is infused by pump. Calculate the flow rate.
19. The physician orders Vancocin 1 g in 150 mL of D<sub>5</sub>W over 1.5 hours. The drop factor is 60 gtts.
- The IV is infused by gravity. Calculate the flow rate.
  
  - The IV is infused by pump. Calculate the flow rate.
20. The physician orders Albumisol 25% in a 50mL vial over 30 minutes. The drop factor is 10 gtts/mL.
- The IV is infused by gravity. Calculate the flow rate.
  
  - The IV is infused by pump. Calculate the flow rate.

*Answers:* (1) 15 mg (2) 0.3 mg (3) 20.5 kg (4) 44 lbs (5) 250 mg (6) 500 mcg (7) 120 mg (8) 240 mL  
(9) 0.4mg (10) 1g (11) 0.75 mL (12) 1 tab (13) 10mL (14) 1.5mL (15) 1 tab (16) a. 25 b. 125 (17) a. 16 b. 63 (18) a.  
26 b. 104 (19) a. 100 b. 100 (20) a. 17 b. 100