

Lincoln Memorial University
Caylor School of Nursing
NURS 115 Sample Dosage Calculation Quiz

Name _____ Date _____

To obtain credit for dosage calculation questions, the student must always do the following:

- Correctly label the answer.
- Round the answer to the appropriate amount that can be administered in the clinical area. For example:
 - < 1mL round to the correct hundredths place.
 - > 1mL round to the correct tenth place.
- Round an IV pump answer to the correct tenth place.
- Round weight related answers to the hundredths.
- Pediatric questions should be rounded to the hundredths.

1. Multiply $(5/7) \times (14/15)$. Express as a fraction.
2. Solve $x:2.6 :: 3:1$
3. Solve $11:121 :: 3:x$.
4. Solve $:4:1 :: x:2.5$
5. Convert $1/64$ to a decimal. Round to two decimals.
6. $\frac{1}{2}$ oz = _____ mL?
7. 10 mcg = _____ mg?
8. 1 tbsp = _____ mL?
9. 0.015 g = _____ mg?
10. 0.5 mg = _____ mcg?
11. Order: Zylprim 250 mg PO every day. Supply: scored tablets of 100 mg. What is the quantity to administer? _____ tablets.
12. Order: Slo-K 20 mEq PO bid. Supply: liquid labeled 30 mEq per 15 mL. What is the quantity to be administered? _____ mL.
13. Order: 25 mg PO. Supply: 10 mg tablets scored. What is the quantity to administer? _____ tablets.
14. Order: 0.125 mg PO. Supply: 0.25 mg tablets scored. What is the quantity to administer? _____ tablets.
15. Order: 60 mg PO. Supply: 40 mg tablets scored. What is the quantity to administer? _____ tablets.
16. Order: Epinephrine 0.4 mg subcutaneous stat. Supply: ampule labeled 1:1000 (2 mL size.). What is the quantity to administer? _____ mL.
17. Order: Magnesium sulfate 500 mg IM for one dose. Supply: ampule labeled 50% (2 mL size). What is the quantity to administer? _____ mL.
18. Order: 0.5 g IM. Supply: vial of powder labeled 1 g. Dilute with 2.5 mL sterile water to yield $1 \frac{2}{3}$ mL. What is the quantity to administer? _____ mL.

19. Order: Gentamycin 60 mg IM q8h. Supply: vial labeled 80 mg/2mL. What is the quantity to administer? _____mL.
20. Order: Add Nitroglycerin 200 mcg to IV stat. Supply: vial labeled 0.8 mg/mL. What is the quantity to administer? _____mL.
21. Order: 350 mL 0.45% NS IV over 4 hours. Tubing factor: 15 gtts/mL. What is the quantity to administer? _____gtts/min. Round to a whole number.
22. Order: Infuse 10% lipids 500 mL over 10 hours. What is the quantity to administer? _____mL/hr.
23. Order: 250 mL 0.45% NS IV at 60 mL/hr. How many hours will the IV run? _____hr.
24. Order: Infuse 0.45% NS 125 mL over 2 hours. What is the quantity to administer? _____mL/hr.
25. Order: 500 mL D5W IV at 50 mL/hr. How many hours will the IV run? _____hr.
26. Order: Primacor 50 mcg/min IV. Supply: Primacor 20 mg in 100 mL D5W. What is the infusion rate? _____mL/hr.
27. Order: Verapamil 1 mg/hr IV. Supply: Verapamil 10 mg in 100 mL D5W. What is the infusion rate? _____mL/hr.
28. Order: Dopamine 7 mcg/kg/min. Supply: Dopamine 400 mg in 250 mL D5W. Patient weight is 57 kg. What is the infusion rate? _____mL/hr.
29. Order: Epinephrine drip at 1 mcg/min IV. Supply: Epinephrine 2 mg in 250 mL D5W. What is the infusion rate? _____mL/hr.
30. Order: Infuse Heparin 1100 unite IV. Supply: 25,000 units Heparin in 250 mL D5W. What is the infusion rate? _____mL/hr.
31. Order: Digoxin 20 mcg/kg PO every day. Supply: liquid labeled 0.25 mg/1 mL. Child's weight is 20 kg. What is the quantity to administer? _____mL.
32. Order: Acetaminophen liquid 100 mg PO q4h. Supply: liquid labeled 80 mg/0.8 mL. What is the quantity to administer? _____mL.
33. Order: Slo-Phylline 5 mg/kg PO loading dose. Supply: liquid labeled 80 mg/15 mL. Child's weight is 18.9 kg. What is the quantity to administer? _____mL. Round to the nearest whole number.
34. Order: Cefuroxime 50 mg/kg/day IV over 30 minutes. Supply: Cefuroxime reconstituted 90 mg/mL. Child's weight is 8.4 kg. What is the quantity to administer? _____mL.
35. Order Gentamycin 2.5 mg/kg IV q12h. Supply: vial labeled 10 mg/mL. Child's weight is 4 kg. What is the quantity to administer? _____mL.

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Answer sheet

1. $\frac{2}{3}$
2. 7.8
3. 33
4. 10
5. 0.02
6. 15
7. 0.01
8. 15
9. 15
10. 500
11. $2\frac{1}{2}$ (2.5)
12. 10
13. $2\frac{1}{2}$ (2.5)
14. $\frac{1}{2}$ (0.5)
15. $1\frac{1}{2}$ (1.5)
16. 0.4
17. 1
18. 1.5
19. 1.5
20. 0.25
21. 22
22. 50
23. 4
24. 63
25. 10
26. 15
27. 10
28. 15
29. 8
30. 11
31. 1.6
32. 1
33. 18
34. 4.7
35. 1