

PART II

17. You are to administer g iv to your patient. How many mg will you be giving? _____

18. Solve for x: $450 \text{ mg} : 6.0 \text{ mL} :: 225 : x \text{ mL}$ _____

19. Convert: $650 \text{ mg} =$ _____ g

20. Solve for x $\frac{0.4 \text{ mg}}{x} = \frac{0.6 \text{ mg}}{2 \text{ mL}}$ _____

21. Each tablet of a medication contains 250 mcg. How many tablet(s) would give if the order was for 0.125 mg?

22.



Give Furosemide 100 mg _____

23.



Give Morphine 30mg _____

24. The patient weighs 204 pounds 4 ounces. What is the weight in kilograms? _____

25. The order reads Phenobarbital 30 mg PO. You have on hand Phenobarbital 100 mg / 5 mL
How many mL will you give?

26. Convert: $180 \text{ mg} =$ _____ g

27. You are to administer 4 T of Mylanta to your patient. The calibrated medicine cup only has markings for ounces. How many ounces will you give?

PART II (cont)

28. Solve for x: $x = 4.2 / (5.3 \times 2.8)$ _____
29. Convert: 2.3 g = _____ mg
30. The order reads Omnipen 1.5 g IM. The label reads Omnipen 1000 mg / 2 mL. How many mL will you give?

31. Convert: 750 mcg = _____ mg
32. The medication order is for 750 mg. The label reads 250 mg / 2.5 mL. How many mL will you give?

33. Susie and her mother weigh 180 pounds 6 ounces when they are weighed together. Susie's mother weighs 144 pounds 14 ounces. How much does Susie weigh?

34. Using the following directions for reconstitution, give Unasyn 1000 mg

Preparation for Intramuscular Injection

1.5 g and 3.0 g Standard Vials: Vials for intramuscular use may be reconstituted with Sterile Water for Injection USP, 0.5% Lidocaine Hydrochloride Injection USP or 2% Lidocaine Hydrochloride Injection USP. Consult the following table for recommended volumes to be added to obtain solutions containing 375mg Unasyn per mL (250mg ampicillin/125 mg sulbactam per mL)

Note: Use only freshly prepared solutions and administer within one hour after preparation.

UNASYN Vial Size	Volume of Diluent to be Added	Withdrawal Volume *
1.5 g	3.2 mL	4.0 mL
3.0 g	6.4 mL	8.0 mL

*There is sufficient excess present to allow withdrawal and administration of the stated volumes.

**MATH 075 PROFICIENCY EXAM
ANSWERS**

PART I

1. 9
2. vii
3. $5/24$
4. 1
5. 0.7
6. 14.07
7. 22.86
8. 0.4
9. 22 pounds, 0 ounces
10. 1630
11. 90 mL
12. 39.8°C
13. 0.003 g
14. 1 L
15. 101.3°F
16. 1500 mg

PART II

17. 4000 mg
18. 3.0 mL
19. 0.65 g
20. 1.33 mL
21. $1/2$ tab
22. 10 mL
23. 2 mL
24. 92.84 kg
25. 1.5 mL
26. 0.18 g
27. 2 ounces
28. 0.28
29. 2300 mg
30. 3 mL
31. 0.75 mg
32. 7.5 mL
33. 35 lb 8 ounces
34. 2.66 mL