Final answer

Proficiency Test 3 page 120

Brittney B

1. $\frac{20\ \cancel{mEq}}{30\ \cancel{mEq}} \times 5mL =$ **10mL**

2. $\frac{80\ \cancel{mg}}{125\ \cancel{mg}} \times 5mL =$ **3.2 mL**

3. $0.02g \times 1000 = 20mg \rightarrow \frac{20mg}{10mg} =$ **2 tablets**

4. $0.5g \times 1000 = 500mg \rightarrow \frac{500\ \cancel{mg}}{250\ \cancel{mg}} =$ **2 capsules**

5. $\frac{0.5mg}{0.25mg} =$ **2 tablets**

6. $\frac{20mg}{5mg} \times 5mL =$ **20mL**

7. $\frac{75\ mg}{50\ mg} =$ **1.5 tablets**

8. $\frac{40\ mg}{80mg} =$ **0.5 tablets**

9. $0.25\ \cancel{mg} \times 1000 = \frac{250\ mcg}{500\ mcg} \times 10\ mL =$ **5mL**

Buttercup

10. $\frac{75mg}{50mg} \times 10mL = 15mL$

11. $\frac{5mg}{2mg} = 2.5$ tablets

12. $0.15mg \times 1000 = \frac{150mcg}{300mcg} = 0.5$ tablets

13. $\frac{375mg}{250mg} = 1.5$ tablets

14. a 4% 1000 $= \frac{400mg}{200mg} = 2$ tablets

15. $\frac{1.5mg}{1mg} \times 8mL = 12mL$

16. $\frac{25mg}{12.5mg} \times 5mL = 10mL$

17. $\frac{60mg}{40mg} \times 0.4mL = 0.6mL$

18. $0.5g * 1000 = \frac{500mg}{250mg} \times 5mL = 10mL$

Bentley

19. $\frac{15\ mg}{50\ mg} \times 5mL = 1.5mL$

20. $\frac{50\ mg}{25\ mg} \times 5mL = 10mL$

Proficiency Test 4 pg. 198

1. $0.5g \times 1000 = \frac{500\ mg}{250\ mg} \times 1mL = 2mL$ IM

2. $\frac{10\ mEq}{40\ mEq} \times 20mL = 5mL$ IV

3. $\frac{0.5\ mg}{0.25\ mg} \times 1mL = 2mL$ IM

4. $100\ mg \div 1000 = \frac{0.1g}{0.2g} \times 2mL = 1mL$ IM

5. $\frac{50\ mg}{100\ mg} \times 1mL = 0.5mL$ IM

6. $\frac{0.25\ mg}{0.5\ mg} \times 2mL = 1mL$ IM

Butterfly B

7. $\frac{0.3\,mg}{0.4\,mg} \times 1mL = 0.75mL \rightarrow 0.8mL$ SubQ

8. 1g : 1000mL 1mg : 1000mL
All equals 1mg/mL SubQ

9. $\frac{10}{100mL} = 0.1g/mL \quad \frac{1g}{0.1g} = 10mL$ IV push

10. $0.1 \times 1000 = \frac{100mg}{200mg} \times 5mL = 2.5mL$ IM

11. $\frac{400,000\ U/mL}{500,000\ U\,mL} = 0.8mL$ IM

12. $\frac{0.5mg}{0.5mg} \times 2mL = 2mL$ IM

13. $\frac{50}{100} = 0.5g/mL \quad \frac{1g}{0.5g/mL} = 2mL$ IV push

14. $\frac{75mg}{100mg} \times 2mL = 1.5mL$ IM

3 Calculations of Liquid Injections (continued)

.125 mg IV daily
abeled 0.25 mg/2 mL

HCl 12 mg IM × 1 dose
mL

Eq KCl (that will be added to IV fluids
20 mL (use 10 mL syringe)

tal Drill in Liquids-for-Injection Pr

g problems, you will be able to calcu
owledge of equivalents and dosage
necessary, round to the nearest t

ply
ng/mL
Eq/20 mL
g/mL
mL
l mL
mL
(round
st tenths)
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L

ANSWERS

Brittney B

15. $\frac{1g}{100mL} = \frac{1000mg}{100mL}$

$\frac{1000}{100} = 10mg$ IM

16. $\frac{50mg}{100mg} \times 1mL = 0.5mL$ IM

17. $\frac{0.2mg}{0.4mg} \times 1mL = 0.5mL$ SubQ

18. $\frac{0.15g}{0.3g} \times 2mL = 1mL$ IM

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