

Chapter 4 Self Test 1

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1. $\frac{1.5\text{mg}}{1} \times \frac{1\text{tab}}{0.75\text{mg}} = 2\text{ tab}$
2. $\frac{0.25\text{mg}}{1} \times \frac{1\text{tab}}{0.5\text{mg}} = 0.5\text{ tab}$
3. $\frac{0.5\text{g}}{1} \times \frac{1\text{cap}}{250\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 2\text{ cap}$
4. $\frac{10\text{mg}}{1} \times \frac{1\text{tab}}{2.5\text{mg}} = 4\text{ tab}$
5. $\frac{650\text{mg}}{1} \times \frac{1\text{tab}}{325\text{mg}} = 2\text{ tab}$
6. $\frac{20\text{mg}}{1} \times \frac{1\text{cap}}{10\text{mg}} = 2\text{ cap}$
7. $\frac{10\text{mg}}{1} \times \frac{1\text{tab}}{2.5\text{mg}} = 4\text{ tab}$
8. $\frac{200000\text{units}}{1} \times \frac{1\text{tab}}{400000\text{units}} = 0.5\text{ tab}$
9. $\frac{0.5\text{mg}}{1} \times \frac{1\text{tab}}{0.25\text{mg}} = 2\text{ tab}$
10. $\frac{18.75\text{mg}}{1} \times \frac{1\text{tab}}{12.5\text{mg}} = 1.5\text{ tab}$
11. $\frac{300\text{mg}}{1} \times \frac{1\text{tab}}{200\text{mg}} = 1.5\text{ tab}$
12. $\frac{0.3\text{mg}}{1} \times \frac{1\text{tab}}{0.1\text{mg}} = 3\text{ tab}$
13. $\frac{6.25\text{mg}}{1} \times \frac{1\text{tab}}{25\text{mg}} = 0.25\text{ tab}$
14. $\frac{400\text{mcg}}{1} \times \frac{1\text{tab}}{0.2\text{mg}} \times \frac{1\text{mg}}{1000\text{mcg}} = 2\text{ tab}$
15. $\frac{7.5\text{mg}}{1} \times \frac{1\text{tab}}{5\text{mg}} = 1.5\text{ tab}$
16. $\frac{0.625\text{mg}}{1} \times \frac{1\text{tab}}{1.25\text{mg}} = 0.5\text{ tab}$
17. $\frac{0.5\text{g}}{1} \times \frac{1\text{tab}}{250\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 2\text{ tab}$
18. $\frac{37.5\text{mg}}{1} \times \frac{1\text{tab}}{25\text{mg}} = 1.5\text{ tab}$
19. $\frac{1\text{g}}{1} \times \frac{1\text{cap}}{500\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 2\text{ cap}$
20. $\frac{25\text{mg}}{1} \times \frac{1\text{tab}}{10\text{mg}} = 2.5\text{ tab}$

Chapter 5 Proficiency Test 1

1. $\frac{0.1\text{g}}{1} \times \frac{3\text{mL}}{200\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 1.5\text{ mL}$
2. $\frac{5\text{mg}}{1} \times \frac{1\text{mL}}{15\text{mg}} = 0.33\text{ mL}$
3. $\frac{25\text{mg}}{1} \times \frac{2\text{mL}}{50\text{mg}} = 1\text{ mL}$
4. $15\text{units} + 5\text{units} = 20\text{ units}$
5. $\frac{20\text{mg}}{1} \times \frac{20\text{mL}}{40\text{mg}} = 10\text{ mL}$
6. $\frac{0.6\text{mg}}{1} \times \frac{1\text{mL}}{0.4\text{mg}} = 1.5\text{ mL}$
7. $\frac{0.8\text{mg}}{1} \times \frac{1\text{mL}}{0.4\text{mg}} = 2\text{ mL}$
8. $\frac{0.5\text{g}}{1} \times \frac{1\text{mL}}{250\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 2\text{ mL}$
9. $\frac{200\text{mg}}{1} \times \frac{2\text{mL}}{300\text{mg}} = 0.8\text{ mL}$
10. $\frac{7.5\text{mg}}{1} \times \frac{100\text{mL}}{1\text{g}} \times \frac{1\text{g}}{1000\text{mg}} = 0.75\text{ mL}$

11. $\frac{10\text{mg}}{1} \times \frac{1\text{mL}}{5\text{mg}} = 2\text{mL}$
12. $\frac{25\text{mg}}{1} \times \frac{2\text{mL}}{100\text{mg}} = 0.5\text{mL}$
13. $\frac{50\text{mg}}{1} \times \frac{1\text{mL}}{25\text{mg}} = 2\text{mL}$
14. $\frac{0.5\text{mg}}{1} \times \frac{1\text{mL}}{2\text{mg}} = 0.25\text{mL}$
15. $\frac{0.2\text{g}}{1} \times \frac{2\text{mL}}{200\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} = 2\text{mL}$

Chapter 8 Self Test 2

1. $\frac{60\text{mg}}{1} \times \frac{5\text{mL}}{125\text{mg}} = 2.4\text{mL}$ safe
2. $\frac{175\text{mg}}{1} \times \frac{5\text{mL}}{125\text{mg}} = 7\text{mL}$ safe
3. $\frac{200\text{mg}}{1} \times \frac{5\text{mL}}{125\text{mg}} = 8\text{mL}$ safe
4. $80\text{mg} \times 4 = 320\text{mg}$ order is to low
5. $\frac{1\text{mg}}{1} \times \frac{1\text{mL}}{5\text{mg}} = 0.2\text{mL}$ safe for the first dose
6. $\frac{2\text{mg}}{1} \times \frac{1\text{mL}}{2\text{mg}} = 1\text{mL}$ safe
7. $\frac{5\text{mg}}{1} \times \frac{1\text{mL}}{5\text{mL}} = 1\text{mL}$ safe
8. $100\text{mg} \times 21.82\text{kg} = 2182\text{mg} / 4 = 545.5\text{mg}$ order is to low
9. $\frac{300\text{mg}}{1} \times \frac{5\text{mL}}{100\text{mg}} = 15\text{mL}$ safe
10. $5.68\text{kg} \times 8\text{mg} = 45.44\text{mg}$ order is to high