

Dosage Calc Worksheet

1. $\frac{250\text{mL (15)}}{180\text{min}} = 21\text{ gtt/min}$

2. $\frac{50\text{mL (60)}}{30\text{min}} = 100\text{ gtt/min}$

3. $\frac{250 / 2 = 125 (15)}{60\text{min}} = 31\text{ gtt/min}$

4. $\frac{100\text{mL (12)}}{60\text{min}} = 20\text{ gtt/min}$

5. $\frac{1000\text{mL}}{8\text{hr}} = 125\text{ mL/hr}$

6. $\frac{1000\text{mL}}{4\text{hr}} = 250\text{ mL/hr}$

7. $\frac{250\text{mL}}{1.5\text{hr}} = 167\text{ mL/hr}$

8. $\frac{75\text{mcg}}{100\text{mcg}} (2) = 1.5\text{ mL}$

9. $\frac{5\text{mg}}{20\text{mg}} (5) = 1.25\text{ mL}$

10. $\frac{2\text{mg}}{10\text{mg}} (1) = 0.2\text{ mL}$

$$11. \quad 175 \text{ lbs} = 79.5 \text{ kg} \quad \frac{100 \times 142}{79.5 \text{ kg} \times 60} = \frac{14,200}{4,770} = 2.97$$

$$\triangleright 50 \text{ mg} / 500 \text{ mL} = 0.1 \text{ mg/mL}$$

$$\triangleright 0.1 \text{ mg} (1000) = 100 \text{ mcg/mL} \quad 3 \text{ mcg/kg/min}$$

$$12. \quad 70 \text{ kg}$$

$$\triangleright 250 / 500 = 0.5 \text{ mg/mL} \quad \frac{70 \times 1 \times 60}{500} = 8.4 \text{ mL/hr}$$

$$\triangleright 0.5 \text{ mg} (1000) = 500 \text{ mcg/mL}$$

$$13. \quad 100 \text{ mg} / 250 \text{ mL} = 0.4 \text{ mg/mL} \quad \frac{400 \times 12}{60} = 80 \text{ mcg/min}$$

$$\triangleright 0.4 \text{ mg} (1000) = 400 \text{ mcg/mL}$$

$$14. \quad 75 \text{ kg} \quad \frac{75 \times 2 \times 60}{1,000} = 5.6 \text{ mL/hr}$$

$$\triangleright 800 \text{ mg} / 500 \text{ mL} = 1.6 \text{ mg/mL}$$

$$\triangleright 1.6 \text{ mg} (1000) = 1,600 \text{ mcg}$$

$$15. \quad \frac{4 \text{ mcg} \times 60}{64} = 3.8 \text{ mL/hr}$$

$$16. \quad 65 \text{ kg} \quad \frac{50 \times 15}{60} = 12.5 \text{ mcg/min}$$

$$\triangleright 50 \text{ mcg/mL}$$

$$\triangleright 15 \text{ mL/hr}$$

$$17. \quad \frac{25,000}{250} = 100 \text{ UNITS/mL} \quad \frac{500}{100} = 5 \text{ mL/hr}$$

$$18. \quad 100 / 250 = 0.4 \text{ U/mL} \quad 5 / 0.4 = 12.5 = 13 \text{ mL/hr}$$

$$19. \quad 4 \text{ mL} \times .50 \times 90.9 = 18 \text{ liters}$$

$$20. \quad 4 \text{ mL} \times 0.75 \times 68.1 = 20 \text{ liters}$$