

med. calc. ws #1

#1 10 mg in 5 ml ~~100 mg~~
~~100 mg~~ 100 ml

120 mg codeine $\frac{10 \text{ mg}}{5 \text{ ml}} = \frac{x}{100 \text{ ml}}$

#2 10 mcg/kg/min $10 \times 80 \times 15 = 12,000 \text{ mcg}$

#3 15.9 kg $\times 40 = 636 / 4$
 106 mg

#4 16.5 ~~kg~~ $1.5 \text{ mcg} \times 16.5 = 24.75 \text{ mcg}$
 1 mg = 1000 mcg 0.02475 mg

#5 1 tsp = 5 ml - 105 ml
 $\frac{180 \text{ mg}}{5 \text{ ml}} = \frac{x}{105 \text{ ml}} = 3,780 \text{ mg}$

#6 0.375 g PO tid 1.125 g 24 hrs

#7 $\frac{750 \text{ mg} \times 2.5 \text{ ml}}{1000 \text{ mg}} = 1.875 \text{ ml}$

#8 $\frac{7.5 \text{ mg} \times 1 \text{ tab}}{5 \text{ mg}} = 1.5 \text{ tablets}$

#9 $\frac{125 \text{ mg} \times 5 \text{ ml}}{250 \text{ mg}} = 2.5 \text{ ml}$

$$\#10 \quad \frac{100 \text{ mg} \times 1 \text{ tab}}{100 \text{ mg}} = 1 \text{ tablet}$$

$$\#11 \quad 1 \text{ oz} = 30 \text{ mL}$$
$$128 \text{ oz} = 3,840 \text{ mL} \rightarrow 3.84 \text{ L}$$

$$\#12 \quad \frac{2500 \text{ units} \times 250 \text{ mL}}{20,000 \text{ units}} = 31.25$$

$$\#13 \quad \frac{300,000 \text{ units}}{1 \text{ mL}} = \frac{x}{25 \text{ mL}}$$
$$750,000 \text{ units}$$

$$\#14 \quad \frac{0.15 \text{ mg} \times 1 \text{ mL}}{0.4 \text{ mg}} = 0.375 \text{ mL}$$

$$\#15 \quad \frac{0.4 \text{ mg} \times 10 \text{ mL}}{5 \text{ mg}} = 0.8 \text{ mL}$$

$$\#16 \quad 59.0909 \text{ kg} \times 25 = 1,477.3 \text{ mg min}$$
$$\times 50 = 2,954.5 \text{ mg max}$$

$$\#17 \quad \frac{150 \text{ mg} \times 2 \text{ mL}}{300 \text{ mg}} = 1$$

$$\#18 \quad \frac{10 \times 3 \text{ mL}}{500 \text{ mg}} = 0.06 \text{ mL}$$

$$\#19 \quad 21.8 \text{ kg} \times 5 \text{ mg} = 109 \text{ mg / day}$$
$$\div 2 = 54.5 \text{ mg per dose}$$

$$\#20 \quad 187 / 2.2 = 85 \quad \frac{85 \text{ mg} \times 0.3 \text{ mL}}{30 \text{ mg}}$$
$$1 \text{ mg / kg} \quad 0.85 \text{ mL}$$

$$\#21 \quad 1.35 \text{ kg} = 135 \text{ mg}$$
$$\times 100 \text{ mg}$$

$$\#22 \quad \frac{50,000 \text{ mcg}}{250 \text{ mL}} = \frac{?}{1 \text{ mL}} = 200 \text{ mcg in 1 mL}$$

$$\#23 \quad \frac{125 \text{ mg} \times 7.4 \text{ mL}}{1000 \text{ mg}} = 0.925 \text{ mL}$$

$$\#24 \quad 8 \text{ mcg} \times 7.2 \text{ kg} = 57.6 \text{ mcg / 2}$$
$$28.8 \text{ mcg per dose}$$

$$\#25 \quad \frac{0.6 \text{ mg} \times 1 \text{ mL}}{0.4 \text{ mg}} = 1.5 \text{ mL}$$