

Solutions for Sample Medication Administration Math Problems

- 1) A patient weighs 220lbs. they need to be given 2mg/kg, you have the medication in 50mg/10ml. How many ml of medication does the patient need?

$$\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)$$

- 2) A patient weighs 330lbs. they need to be given 4mg/kg, you have the medication in 25 mg tablet form. How many tablets of the medication does the patient need?

$$\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)$$

- 3) You need to infuse 25 ml in 10 minutes per infusion pump. What should the rate be set at in ml/hr?

$$\frac{\quad}{\quad} \left(\frac{\quad}{\quad}\right) \frac{\quad}{\quad}$$

- 4) A patient weighs 110lbs. they need to be given 5mg/kg, you have the medication in 125mg/10ml. How many ml of medication does the patient need?

$$\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)$$

- 5) You need to give 60mg/kg of medication to a patient weighing 330lbs. the medication you have is 50 grains per caplet. How many Caplets must be given to the patient?

$$\left(\frac{\text{—————}}{\text{—————}}\right) \times \left(\frac{\text{—————}}{\text{—————}}\right) \times \left(\frac{\text{—————}}{\text{—————}}\right)$$

- 6) At what rate should you set the infusion pump, if you need to give 8 grams/hr per infusion pump and you have 80 grams in 100 ml on hand?

$$\text{—————} \left(\frac{\text{—————}}{\text{—————}}\right) \text{—————}$$

- 7) You need to give 120mg/kg of medication to a patient weighing 110lbs. the medication you have is 20 grains per caplet. How many Caplets must be given to the patient?

$$\left(\frac{\text{—————}}{\text{—————}}\right) \times \left(\frac{\text{—————}}{\text{—————}}\right) \times \left(\frac{\text{—————}}{\text{—————}}\right)$$

- 8) A medication is 40 grams in 200 ml, and the medication is running at 25 ml/hr. What is the drug rate per hr?

$$\text{—————} \left(\frac{\text{—————}}{\text{—————}}\right) \text{—————}$$

- 9) How many gtt/min are needed, if 600 ml must be infused in an hour at a drip factor of 60?

$$\text{—————} \left(\frac{\text{—————}}{\text{—————}}\right) \times \left(\frac{\text{—————}}{\text{—————}}\right) \text{—————}$$

10) Using a drip factor of 15 to deliver 400 ml in 2 hours. How many gtt/min are needed?

$$\text{_____} \left(\frac{\text{_____}}{\text{_____}} \right) \times \left(\frac{\text{_____}}{\text{_____}} \right) \text{ —}$$

11) You need to infuse 50 ml in 30 minutes per infusion pump. What should the rate be set at in ml/hr?

$$\text{_____} \left(\frac{\text{_____}}{\text{_____}} \right) \text{ —}$$

12) A patient weighs 165 lbs. they need to be given 2mg/kg, you have the medication in 50 mg tablet form. How many tablets of the medication does the patient need?

$$\left(\frac{\text{_____}}{\text{_____}} \right) \times \left(\frac{\text{_____}}{\text{_____}} \right) \times \left(\frac{\text{_____}}{\text{_____}} \right)$$

13) At what rate should you set the infusion pump, if you need to give 10 grams/hr per infusion pump and you have 50 grams in 100 ml on hand?

$$\text{_____} \left(\frac{\text{_____}}{\text{_____}} \right) \text{ —}$$

14) Using a drip factor of 10 to deliver 600 ml in 4 hours. How many gtt/min are needed?

$$\text{_____} \left(\frac{\text{_____}}{\text{_____}} \right) \times \left(\frac{\text{_____}}{\text{_____}} \right) \text{ —}$$

15) A medication is 25 grams in 100 ml, and the medication is running at 100 ml/hr. What is the drug rate per hr?

$$\text{_____} \left(\frac{\text{_____}}{\text{_____}} \right) \text{ —}$$

16) A patient weighs 440 lbs. they need to be given 5 mg/kg, you have the medication in 100mg/10ml. How many ml of medication does the patient need?

$$\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)$$

17) A patient weighs 55 lbs. they need to be given 3mg/kg, you have the medication in 25 mg tablet form. How many tablets of the medication does the patient need?

$$\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)$$

18) Using a drip factor of 60 to deliver 360 ml in an hour. What gtt/min is needed?

$$\frac{\quad}{\quad} \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \quad \frac{\quad}{\quad}$$

19) You need to infuse 100 ml in 20 minutes per infusion pump. What should the rate be set at in ml/hr?

$$\frac{\quad}{\quad} \left(\frac{\quad}{\quad}\right) \quad \frac{\quad}{\quad}$$

20) You need to give 60mg/kg of medication to a patient weighing 55 lbs. the medication you have is 25 grains per caplet. How many Caplets must be given to the patient?

$$\frac{\left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right) \times \left(\frac{\quad}{\quad}\right)}{\left(\frac{\quad}{\quad}\right)}$$