

Module 1-10 questions Module 2-10 questions Worksheet

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1. Infuse ceftriaxone 1 gram over 45 minutes. The drug is supplied as 1gram/50mL. The

drip factor is 15. How many gtt/min will you infuse?

$$\frac{50 \text{ mL} \times 15}{45} = \boxed{17 \text{ gtt/min}}$$

$$\frac{1g}{x} = \frac{1g}{50 \text{ mL}}$$

$$50 = x$$

2. The physician writes an order to give 1000mL of normal saline over 8hrs. How many mL/hr will you infuse?

$$1000 / 8 = \boxed{125 \text{ mL/hr}}$$

3. Infuse vancomycin hydrochloride 1.5 gram over 3 hours. The drug is supplied as 1.5 gram/250mL. The drip factor is 15. How many gtt/min will you infuse?

$$\frac{250 \text{ mL} \times 15}{180} = \boxed{21 \text{ gtt/min}}$$

4. An order has been written to give cefazolin 1gram over 30 minutes. The drug is supplied as 1 gram/50mL. The gtt factor is 60. How many gtt/min will you infuse?

$$\frac{50 \text{ mL} \times 60}{30} = \boxed{100 \text{ gtt/min}}$$

5. The nurse is to give Ciprofloxacin 500mg IV over 1 hr. The drug is supplied as 1gram/250mL. The gtt factor is 15. How many gtt/min will you infuse?

$$\frac{125 \text{ mL} \times 15}{60} = \boxed{32 \text{ gtt/min}}$$

$$\frac{500 \text{ mg}}{x} = \frac{1,000 \text{ mg}}{250 \text{ mL}}$$

$$1,000x = 125,000$$

6. An order is received for Fentanyl 75mcg IV now. The drug is supplied as 100mcg/2mL.

How many mL will you give?

$$x = \boxed{1.5 \text{ mL}}$$

$$\frac{100 \text{ mcg}}{2 \text{ mL}} = \frac{75 \text{ mcg}}{x}$$

$$100x = \frac{150}{100}$$

7. Infuse 1000 mLs normal saline over 4 hrs. How many mL/hr will you set on the pump?

$$1000 / 4 = \boxed{250 \text{ mL/hr}}$$

8. The patient is to receive metoprolol 5mg for chest pain. The drug is supplied as 20mg/5mL. How many mL will you give? (Do not round your final answer)

$$\frac{5 \text{ mg}}{x} = \frac{20}{5}$$

$$\frac{20x}{20} = \frac{25}{20}$$

$$x = \boxed{1.25 \text{ mL}}$$

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6. The physician in the previous questions has now written an order to increase the Dopamine to 4 mcg/kg/min. Using the information in the previous question, what rate would the nurse set on the IV pump? Round to the nearest tenth.

$$\frac{75 \times 4 \times 60}{1,600} = 11.3 \text{ mL/hr}$$

7. The patient is on an Insulin drip infusing at 5 units/hr. The bag is labeled 100 units insulin in 250 mL NS. At what rate should the pump be infusing? Round to the nearest whole number.

$$5 / .4 = 13 \text{ mL/hr}$$

8. The patient is on a Dopamine drip infusing at 35 mL/hr. The label reads 400 mg dopamine in 500 mL D5W. The patient weighs 62 kg. How many mcg/kg/min is the patient receiving? Round to the nearest tenth.

$$\frac{300 \times 35}{62 \times 60} = 2,100 / 3720 = 7.5 \text{ mcg/kg/min}$$

9. The physician has ordered Rocephin 1 gram IV over 30 minutes. Pharmacy has sent a bag labeled Rocephin 1 gram in 50 mL / D5W. The IV tubing delivers 15 gtt/mL. How many drops per minute (gtt/min) will the nurse deliver?

$$\frac{50 \times 15}{30} = 25 \text{ gtt/min}$$

10. The patient is to receive Cipro 400 mg IV over 1 hour. You receive a bag from the pharmacy labeled Cipro 400 mg in 100 mL D5W. The IV tubing delivers 12 gtt/mL. How many drops per minute (gtt/min) will the nurse deliver?

$$\frac{100 \times 12}{60} = 20 \text{ gtt/min}$$