# 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?

$\frac{vol}{time\ (min)} \times drop\ factor$ vol: 50ml, time: 45min, dropf: 15 gtts/ml $\frac{50ml}{45min} \times 15 = 16.6 \rightarrow$ 17 gtt/min.

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

Pump IV flow rate $\frac{vol}{time\ (hr.)}$ $\frac{1000mL}{8\ hrs.}$ = 125 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?

$\frac{vol}{time} \times dropf$ vol: 250 mL, time: 3 x 60 min. = 180 min, drop: 15 $\frac{250mL}{180min} \times 15 = 20.8\overline{3} \downarrow$ = 21 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?

vol: 50 mL, time: 30 min, drop: 60 $\frac{50\ mL \times 60\ gtt}{30\ min}$ = 100 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?

1g ÷ 2 = 500 mg, 250 ÷ 2 = 125 ml $\frac{125\ ml \times 15}{60\ min} = 31.25$ 31 gtt/min.

6. An order is received for Fentanyl 75mcg IV now. The drug is supplied as 100mcg/2mL How many mL will you give?

$\frac{D}{H} \times mL = \frac{75mcg}{100mcg} \times 2mL =$ 1.5 mL

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

$\frac{1000\ mL}{4\ hrs}$ = 250 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)

$\frac{5mg}{20mg} \times 5mL =$ 1.25 mL