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?

$\frac{15 \times 50\,mL}{45\,min} = 16.66 = 17\ gtt/min$

2. The physician writes an order to give 1000mL of normal saline over 8hrs. How many mL/hr will you infuse? $\frac{1000\,mL}{8\,hrs} = 125\,mL/hr$

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?

$\frac{15 \times 250}{180\,min} = 20.833 = 21\ gtt/min$

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?

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

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?

$\frac{250 \times 15}{60} = 62.5 = 63\ gtt/min$

6. An order is received for Fentanyl 75mcg IV now. The drug is supplied as 100mcg/2mL. How many mL will you give? $\frac{75\,mcg}{X} = \frac{100\,mcg}{2\,mL}$ 1.5 mL

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

$\frac{1000\,mL}{4\,hr} = 250\,mL/hr$

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)

$\frac{20\,mg}{5\,mL} = \frac{5\,mg}{X}$ 1.25 mL