

Broward College

Department of Nursing Technology

NUR 2222L Health Alterations III Math Worksheet I

1. The physician orders dopamine at 5 mcg/kg/min. The concentration is dopamine 2 g in 250 mL of 0.9% NS. The patient's weight is 80 kg. How many milliliters per hour should the IV pump be programmed for?

Give: _____

2. Order: Digoxin 0.375 mg po qd
Supply: Digoxin 125 mcg scored tablets

Give: _____

3. Your patient with diabetes has an order for regular insulin IV at 9 units/h. The concentration is insulin 500 units in 500 mL of 0.9% NS. How many milliliters per hour should the IV pump be programmed for?

Give: _____

4. Order: Atropine gr 1/150 IM on call to OR
Supply: Atropine vial labeled gr 1/200 per ml

Give: _____

5. Order: Dilantin elixir 0.4 Gm po now
Supply: Dilantin Elixir 125mg/4ml

Give: _____

6. Order: Mefoxin 1 GM IVPB in 50 cc NS over 2/3 of an hour. Drop factor is 10gtt/ml.
Set the gravity flow rate at : _____
7. Order: 250ml 10% Intralipids over 12 hours. Drop factor is 15 gtt/ml.
Set the gravity flow rate at : _____
8. Drug Order: Lidocaine 2 g in 500 ml D5W to run at 3mg/min.
How many milliliters per hour should the IV pump be programmed for?
Give: _____
9. Order: Heparin 10,000 U in 500cc D5W to infuse @ 1000U/hr.
Set the flow rate on the IV pump at: _____
10. A patient with an acute myocardial infarction has IV nitroglycerin ordered at 20 mcg/min. The concentration is nitroglycerin 50 mg in 250 mL of D₅W. How many milliliters per hour should the IV pump be programmed for?
Give: _____

ANSWERS:

1. 3 ml/hr
2. 3 tablets
3. 9 ml/hr
4. 1.3 ml
5. 12.8 ml
6. 13 gtts/min
7. 5 gtts/min
8. 45 ml/hr
9. 50 ml/hr
10. 6 ml/hr