

Calculation Worksheet #4

1. Ordered is flucloxacillin 250mg IM. Available is 1 G in 10 mL. How much should the nurse administer in mL?
2. Order: Administer 160 mg IV. Available is 100 mg/2 mL. How much should the nurse administer in mL? Do not round.
3. Azulfidine 1.5 g has been ordered every 12 hrs. Available are 500mg tablets. How many tablets should the nurse administer per day?
4. Ergotrate maleate 200 mcg is ordered po daily. Available is 0.2 mg. How many tablets should the nurse administer?
5. From 0700 to 1900 the nurse calculates the patient's total intravenous fluid intake as __?__ milliliters. An IV is infusing at 50 mL/hour. At 0900 the patient should receive IVPB of 125 mL for 30 minutes. What is the total amount in mL the patient will receive during this time?
6. Solumedrol 1.5 mg/kg is ordered for a child weighing 42 lb. Solumedrol is available as 75 mg / 1 mL is available. How many mL should the nurse administer? Round to the 100th.
7. Administer 17.1 mg of dopamine in 223 mL of D5W infused at a rate of 17,221 mcg/hr. Calculate the flow rate in mL/hr. Round answer to the 10th.
8. Calculate the IV flow rate for 0.2 L of D5W IV over 462 min. Infusion set has drop factor of 59 gtts/mL. What should the IV flow rate be in gtts/min? Round answer to a whole number.

9. Ordered Lasix 24 g IV push now. Available: 22,000,000 mcg in 12 mL. How should the nurse prepare? Round answer to a whole number.
10. Calculate the IV flow rate for 392 mL of D5W IV over 582 min. Infusion set has drop factor of 74 gtts/mL. What should the IV flow rate be in gtts/min? Round answer to a whole number.
11. The total volume ordered is 225 mL N/Saline 0.9% IV. The time over which it is to be given is 40 minutes. The drop factor is 15. How many drops per minute should be administered? Round answer to a whole number.
12. Ordered 7 g of Amoxicillin. Amoxicillin is available as 0.016 kg per 20 mL. How many mL will the nurse prepare? Round answer to the 10th.
13. Potassium chloride is available as 0.016 kg per tablet. Potassium Chloride (K-Dur), 24,000,000 mcg, is ordered. How many tablets should the nurse administer?
14. Aggrastat at 23.8 mg in 129 mL is to be infused at 3 mcg/kg/hr to a patient who weighs 82 kg. At what flow rate in mL/hr should the nurse set the pump? Round answer to the 10th.
15. Administer 0.06 g of codeine po now. Available are 30 mg tablets. How many tablets should the nurse administer?

16. Administer Nafcillin 0.5 g, IM, q6h. Using the following drug label, how many milliliters should the nurse give per dose? Do not round.

NDC 0015-7226-20
EQUIVALENT TO
2 gram NAFICILLIN
NAFICILLIN SODIUM
FOR INJECTION, USP

Buffered-For IM or IV Use
CAUTION: Federal law prohibits dispensing without prescription.

APOTHECON
A BRISTOL-MYERS SQUIBB COMPANY

When reconstituted with 6.6 mL diluent, (SEE INSERT-INTRAMUSCULAR ROUTE), each vial contains 8 mL solution. Each mL of solution contains nafcillin sodium, as the monohydrate, equivalent to 250 mg nafcillin, buffered with 10 mg sodium citrate. Read accompanying circular for complete stability data.
Usual Dosage: Adults—500 mg every 4 to 6 hours. Read accompanying circular for directions for IM or IV use.

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17. Administer Prednisone (Deltazone) 6 mcg/kg/min. The patient weighs 165 lb. Available is 250 mL D₅W with Deltazone 50 mg. How many milliliters per hour should the nurse need to run the infusion?

18. Administer Dobutamine 250 mg in 100 mL of D₅W at 15 mcg/kg/min. The patient weighs 120 lb. Calculate the flow rate in milliliters per hour. Round final answer to the nearest tenth.

19. 8 mL of normal saline is added to a 2 mL vial of Thiamine. How many mg of Thiamine are in each milliliter of fluid?



20. Administer 1 G of erythromycin IVPB every 8 hrs x 5 days. The patient should receive how many micrograms for the course of treatment?

21. A nurse calculates the patient's total intravenous (IV) fluid intake from 0700 to 1900. An IV of NS is infusing at 75 mL/hr. The patient also receives 3 IVPB of 100 mL for 30 minutes. What is the total amount of IV fluid intake for this time frame? Do not round.
22. A patient needs 2 g of a medication. It comes in 250 mg doses. How many doses should be administered? How many hours will it take if the patient is given one dose every 6 hours?
23. The total volume to be administered from an IV is 1,250mL over 10 hours. How many milliliters per minute should be administered? Round answer to a whole number.
24. An IV has been ordered to administer 55 mcg/kg of a medication to a child. The patient weighs 14 kg. The medication strength available is 2 mg/mL. How many mL should be administered? Round answer to the 100th.
25. A patient is receiving 875 g of a medication in 1L of IV fluid. How many g per mL should the patient receive? Round answer to the 10th.