

A Little Practice for the math Test

1. The recommended dose of a medication is 1 ounce. How many cc's will that be?

2. If a woman weighs 124 pounds, how many kilograms does she weigh?

3. If this same woman were to receive an IV infusion at 10 mcgs/kg/min., how many mcgs./min. would this be?

4. You are discharging a child home and her mother asks you how many teaspoons of the prescribed antibiotic she will need to give Joey. The order is to give 250 mg of the medication at bedtime. The bottle reads 250 mg/5 ml. How many teaspoons is this?

5. A patient is to receive 5 grains of aspirin daily. How many mgs. of aspirin is this?

6. How many mgs. are in 1 grain?

7. Mrs. Lind is requesting pain medication prior to going to physical therapy. Ordered is codeine sulfate gr 1. The tablets are labeled codeine sulfate 60.0 mg. How many tablets will you give Mrs. Lind?

8. If a patient is to receive 50 mgs of a medication IM and the syringe is labeled as containing 125 mg. / 2 ml, how many cc's of the medication will you give?

9. Dr. Grant orders 1 gram of ancef to be given IV. Available is a piggyback which is labeled as having 1 gram of ancef in the 50 ml. of D5W. Using an administration set that delivers 10 drops/ml, what will the drip rate be if you want to administer the ancef over the next 30 minutes before the patient goes to surgery?

10. A patient is to receive a liter (1000 cc) of IV fluid over the next 8 hours. If you use an administration set that delivers 10 drops/ml what will the drip rate be?

11. A patient is to receive Vancomycin 1000 mg in 100 cc D5W over 2 hours (120 minutes) This is to be given every 8 hours. Using an administration set that delivers 10 drops/ml, what will the drip rate be? Gladys is an 80 y/o patient who has just undergone a left hip replacement. She rates her pain an 8 on a 0-10 scale. There is a prn order for Demerol 50mg with Vistaril 25 mg IM. You have a tubex of Demerol that contains 50 mg in 1 cc and a vial of Vistaril that contains 50 mg/ml. How many **total** cc's will you give?

12. An IV solution contains 20 meq of KCL in 1000 ml of solution. How much KCL has the patient received when 800 cc of the solution has infused?

13. Margaret Brown is to receive 1 Gm of Ancef IV in 100 cc D5W. If you were using microdrip tubing with a drop factor of 60 drops/ml, what would the flow rate be to infuse the Ancef over ½ hour?

14. A patient admitted to r/o a myocardial infarction (MI) is on a continuous heparin drip at 1800 units/hour. There is 20,000 units of heparin in a 500 cc bag of D5W. Calculate the IV flow rate in cc/hr.

15. You enter the room of George Reynolds and note that among his IV fluids is a Heparin infusion. The 1000 cc bag of D5W is labeled as containing 40,000 units of Heparin. The flow rate on the infusion pump is set at 40 ml/hr. How many units/hour of heparin is Mr. Reynolds receiving?

16. The Emergency Room calls and states they will be admitting to your unit a 68 year old woman who had come to the ER from church with chest pain. They tell you she is receiving IV Nitroglycerine at 30 mcgs/min. As usual they are using a pre-mixed bottle of NTG (500 cc of D5W with 50 mg of NTG) what drip rate would you expect if the patient is indeed getting 30 mcgs/min of NTG.

17. You are to administer Phenobarbital 30 mg. The tablets are labeled as Phenobarbital gr 1. How many tablets will you administer?

18. You are to administer Aspirin gr 10 to a patient prn for c/o headache. The Aspirin is labeled as 325 mg. How many Aspirin will you give to deliver 10 grains?

19. Blood is administered through an administration set that delivers 10 gtts/ml. You are to give 2 units of Packed Red Blood Cells (a total volume of 700 cc) over the next 8 hours. What is the rate in drops/min that you will infuse the blood?