

Name: _____ Date: _____

1. A patient weighs 220 lbs. The dose of a medication is 5 mg/Kg per day given in 4 equal doses. How many mg will the patient receive per dose? _____

2. Ceftazidime is ordered for a 52-pound patient at a dosage of 50 mg/kg/dose given every 12 hours. The drug in solution is available in a concentration of 100 mg/ml. How many ml are required for each dose? _____

3. A physician orders a drug 5 mg/kg three times a day for one week. What is the total daily dose, in grams, for a patient weighing 110 pounds? _____

4. A patient with a BSA 1.8 m^2 is to receive Cytosan $4,500 \text{ mg/m}^2$ IV in 1,000 ml of 0.9% sodium chloride injection over 12 hours. Cytosan is supplied as 2 g vials 50 mg/ml after reconstitution. How many ml should the technician add to the IV bag? _____

5. A patient with a BSA of 2.0 m^2 is ordered 20 units/ m^2 IV push of a drug. The drug is available as 20 units/ml. How many ml are needed for the IV push? _____

6. A patient has a BSA of 1.6 m^2 . The physician orders a daily dose of 900 mg/m^2 of methotrexate for this patient. What is the daily dose, in ml, if the concentration of methotrexate available is 25 mg/ml? _____

7. How many drops per minute will a patient receive if an IV of 1,000 ml of 5% dextrose injection is run in over eight hours? The drip factor is 60 drops/ml. _____

8. You have a 500 ml bottle of an 8% drug. The rate of infusion is 5 g/hr.
 - a. What is the rate of infusion in ml/hr _____
 - b. How long will the bottle last? _____

9. Potassium chloride 40 mEq is to be given in 1 liter of IV fluid. The infusion rate is 125 ml/hr. How many mEq are being infused in one hour? _____

10. What volume of fluid will a patient receive if a large volume parenteral bag is running at 100 ml/hr and is begun at 0800 and discontinued at 1400? _____

Answer Key

1. 125 mg
2. 11.8 ml
3. 0.750 g
4. 162 ml
5. 2 ml
6. 57.6 ml
7. 126 drops/min
8. 62.5 ml/hr; 8 hr
9. 5 mEq/hr
10. 600 ml

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