Module 4: Reconstitution of Solutions Practice Problems

Calculate each of the following medication reconstitution problems. Round all answers to the tenths place.

1. Order: Solu-Cortef 150 mg  
   Available: A vial of Solu-Cortef powder  
   Directions: Add 1.8mL of sterile water to yield a solution of 250mg/mL  
   a. What is the order? _____________  
   b. What is the available? ______________  
   c. How many mL will be administered? ______________

2. Order: Claforan 665 mg  
   Available: A vial of Claforan powder  
   Directions: Reconstitute with 10mL of bacteriostatic water to yield a concentration of 95mg/mL  
   a. What is the order? _____________  
   b. What is the available? ______________  
   c. How many mL will be administered? ______________

3. Order: Pfizerpen 1,000,000 units  
   Available: A vial of Pfizerpen powder  
   Directions: Add 1.6 mL of sterile water to give a concentration of 5,000,000 units/mL  
   a. What is the order? _____________  
   b. What is the available? ______________  
   c. How many mL will be administered? ______________

4. Order: Streptomycin 0.25g  
   Available: A vial of Stroptomycin powder  
   Directions: Reconstitute with 9mL of sterile water for a concentration of 400mg/2mL  
   a. What is the order? _____________  
   b. What is the available? ______________  
   c. How many mL will be administered? ______________
5.  Order: Tazicef 0.6g  
Available: A vial of Tazicef powder  
Directions: Add 10 mL of sterile water. Each mL of solution contains 200mg

a. What is the order? _____________  
b. What is the available? ______________  
c. How many mL will be administered? ______________

6.  Order: Maxipime 0.75g  
Available: A vial of Maxipime powder  
Directions: Add 2.6mL of sterile water to yield 200mg/2mL

a. What is the order? _____________  
b. What is the available? ______________  
c. How many mL will be administered? ______________

7.  Order: Cefadyl 225mg  
Available: A vial of Cefadyl powder  
Directions: Reconstitute with 2mL of sterile water to yield a concentration of 500mg/2mL

a. What is the order? _____________  
b. What is the available? ______________  
c. How many mL will be administered? ______________

8.  Order: Zovirax 200mg  
Available: A vial of Zovirax powder  
Directions: Add 10mL of sterile water to yield 50mg/0.5mL

a. What is the order? _____________  
b. What is the available? ______________  
c. How many mL will be administered? ______________

9.  Order: Suprax 200mg  
Available: A vial of Suprax powder  
Directions: Add 70mL of sterile water. Each teaspoon contains 100mg

a. What is the order? _____________  
b. What is the available? ______________  
c. How many mL will be administered? ______________
10. **Order:** Ciprofloxacin 375mg  
**Available:** A vial of Ciprofloxacin powder  

**Directions:** Add 10mL of sterile water to yield a solution of 37.5mg/mL  

a. What is the order? ______________  
b. What is the available? ______________  
c. How many mL will be administered? ______________