

Nursing Division

ADN

Practice IV Push Dosage Calculations

1. Medication order: Phenytoin (Dilantin) 200 mg IVP
Available: Phenytoin 100 mg/2 mL
Directions: Give undiluted at a rate not to exceed 50 mg per minute.
How many mL will you give? How many mL per minute will you give? How many minutes will it take to administer the medication?
2. Medication order: Digoxin (Lanoxin) 0.25 mg IVP
Available: Digoxin 0.5 mg/mL
Directions: Dilute medication in normal saline for a total volume of 10 mL and administer over 5 minutes
How many mL of diluent will be added to total 10 mL? How many mL per minute will you give?
3. Medication order: Digoxin (Lanoxin) 0.25 mg IVP
Available: Digoxin 0.5 mg/ 2 mL
Directions: Dilute medication in normal saline for a total volume of 5 mL and administer over 5 minutes
How many mL of normal saline will be added to total 5 mL? How many mL per minute will you give?
4. Medication order: Midazolam (Versed) 1 mg IVP
Available: Midazolam 5 mg/mL
Directions: Dilute medication in normal saline for a total volume of 4 mL and administer over 2 minutes
How many mL of normal saline will be added? How many mL per minute will you give?

5. Medication order: Digoxin (Lanoxin) 0.125 mg IVP
Available: Digoxin 0.5 mg/mL
Directions: Dilute medication in normal saline for a total volume of 5 mL and administer over 5 minutes
How many mL of normal saline will be added to total 5 mL? How many mL per minute will you give?
6. Medication order: Phenytoin (Phenytoin) 200 mg IVP, STAT
Available: Phenytoin 250 mg/5 mL
Directions: Administer undiluted at a rate of 50 mg/min.
How many mL per minute will you give? How many minutes will it take to administer the medication?
7. Medication order: Midazolam (Versed) 6 mg IVP
Available: Midazolam 10 mg/ 2 mL
Directions: Dilute medication in normal saline for a total volume of 10 mL and administer over 2 minutes
How many mL of diluent will be added to total 10 mL? How many mL per minute will you give?
8. Medication order: Furosemide (Lasix) 120 mg IV, STAT
Available: Furosemide 10 mg/mL
Directions: Administer undiluted and not to exceed 40 mg/min.
How many mL per minute will you give? How many minutes will it take to administer the medication?
9. Medication order: Phenytoin (Dilantin) 150 mg IVP
Available: Phenytoin 100 mg/2 mL
Directions: Administer undiluted at a rate of 25 mg per minute.
How many mL per minute will you give? How many minutes will it take to administer the medication?
10. Medication order: Promethazine (Phenergan) 25 mg IV
Available: Promethazine 50 mg/ mL
Directions: Dilute medication in normal saline for a total volume of 10 mL and administer 25 mg per 2 minutes
How many mL of normal saline will be added to total 10 mL? How many mL per minute will you give? How many minutes will it take to administer the medication?

Answers to Practice IV Push Dosage Calculations for Unit IV

1. a. 4 mL
b. 1 mL/min
c. 4 minutes

2. a. 9.5 mL
b. 2 mL/min

3. a. 4 mL
b. 1 mL/min

4. a. 3.8 mL
b. 2 mL/min

5. a. 4.8 mL
b. 1 mL/min

6. a. 1 mL/min
b. 4 min

7. a. 8.8 mL
b. 5 mL/min

8. a. 4 mL/min
b. 3 min

9. a. 0.5 mL/min
b. 6 min

10. a. 9.5 mL
b. 5 mL/min
c. 2 minutes