

# Nursing Math

## Dosage Calculation

### Using Ratio and Proportion

---

**Directions: Determine the volume necessary to provide the following dosages. Express answer to the nearest tenth.**

1. The dosage strength available is 125,000 U per 1.5 mL. The order reads 175,000 U.  
\_\_\_\_\_
  
2. The order is to give 30 mEq. The dosage available is 20 mEq in 15 mL.  
\_\_\_\_\_
  
3. A 175 mg dosage is ordered, 0.35 g in 1.3 mL is available .  
\_\_\_\_\_
  
4. The order is for 150 mcg. The available strength is 0.2 mg in 1.4 mL.  
\_\_\_\_\_
  
5. The available strength is 2g in 2.6 mL. A dosage of 600 mg has been ordered.  
\_\_\_\_\_
  
6. A dosage of 1250 U has been ordered. The strength available is 1000 U in 1.2 mL.  
\_\_\_\_\_
  
7. A dosage of 0.25 g has been ordered. The strength available is 300 mg per 1.5 mL.  
\_\_\_\_\_
  
8. A dosage of 0.25 g has been ordered. The strength available is 300 mg per 1.5 mL.  
\_\_\_\_\_
  
9. Prepare a dosage of 0.3 mg from an available dosage strength of 120 mcg per 1.5 mL.  
\_\_\_\_\_
  
10. The vial label reads 300mg in 1.1 mL. Prepare a 0.5 dosage.  
\_\_\_\_\_

