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 2 g 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 300 mg in 1.1 mL. Prepare a 0.5 dosage.