



Valley Grande Institute



VNSG 1227

ESSENTIALS OF MEDICATION ADMINISTRATION

EXAM 5 – STUDY GUIDE

Dosage Calculations by Weight:

1. Convert body weight from pounds to kilograms.
2. Calculate dosages based on milligrams per kilogram.
3. Determine whether a dosage is safe based on manufacturer recommendation of safe range.
4. If order is safe calculate dose to be administered based on form and amount of medication available.
5. Recognize difference between individual dose and total daily dose amounts.

IV Flow Rate Calculations:

6. Calculate milliliters per hour (mL/hr) IV flow rate settings.
7. Identify two types of administration tubing.
8. Identify from intravenous (IV) tubing packages the drop factor in drops per milliliter (gtt/mL).
9. Calculate IV flow rate in drops per minute (gtt/min) using dimensional analysis.
10. Calculate infusion length and completion times.