I. Linear Equation Models:

1. Simple Interest: \( I = P \times r \times t \)

2. Geometry: Perimeter, Area, Volume & Angles

3. distance, speed & time

4. Mixtures: value vs. concentration of ingredients
   - value of mixture = sum of values of all ingredients
   - amt of substance = sum of individual substances

5. Cost, Revenue & Break-Even (pp.250-251)
   - \( C(x) = \) cost function (variable costs + fixed costs)
   - \( R(x) = \) revenue function
   - if \( x = \) # units made & sold, then...
   - “Break-even” when \( C(x) = R(x) \)
II. See **Word Problem Guidelines #2**
   link located under Reference Resources (course homepage)

III. Examples (pp.252-255): Exercises #24,40,52

HW: pp.251-254 / Exercises #15,19,23,27,39,43,
    Read pp.255-263 (section 3.3)