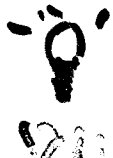
BE-1B | WEDNESDAY 2-21-07

AHSGE WORKBOOK

Page	Problem(s)
86	1, 2
84	3
85	9
80	7

USE ALGEBRA!

WRITE KEY INFORMATION DOWN



USE MEANINGFUL VARIABLE NAMES

A deli offers 10 sandwich choices, 12 side dishes, and 7 beverages. How many different lunches can be ordered if you choose 1 sandwich, 1 side dish, and 1 drink?

Fundamental Counting Principle

The total number of choices can be found by multiplying the number of choices for each item.

Ex) $10 \cdot 12 \cdot 7 = 840$ different lunch choices

↑ choices of sandwich ↑ choices of side ↑ choices of drink

Ex 2
Pg 755
Ch. 14-1

How many ways can you arrange 4 books on a shelf?

$$4 \cdot 3 \cdot 2 \cdot 1 = 24$$

↑ # of choices for 1st book

↑ # of choices for 2nd Book

↑ # of choices for 3rd Book

↑ # of choices for last Book

$$4! = 4 \cdot 3 \cdot 2 \cdot 1$$

READ "four factorial"

How many ways can you arrange 10 DVD's on a shelf?

$$10! = 3,628,800$$

HW: Read CH. 14-1 Pg 756-757 # 8, 12, 15, 16.