ECO 311 — Homework 0

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1 Wheat and Bread

- 1. Calculate GDP
 - Value Added: 50 * \$3 + (50 * \$2 20 * \$3) = \$190 inventory is value added
 - Expenditure: C + G + I + NX = \$115 + 0 + \$15 + \$75 \$15 = \$190 inventory is investment
 - Income: (\$50 + \$20) + ((\$45 * 3 \$50 + 5 * \$3) + (\$100 \$20 \$60)) = \$190 inventory counts towards profits because they profited 5 bushels which are valued at \$3 each

2 Coal and Steel

- 1. Determine GDP
 - Value Added: 15 * \$5 + \$20 * 10 25 * \$5 = \$150
 - Expenditure: 8 * \$20 + (NX = 2 * \$20 10 * \$5) = \$150
 - Income: \$50 + (15 * \$5 \$50) + \$40 + (10 * \$20 \$40 25 * \$5) = \$150
- 2. Determine current account surplus and deficit: \$0

$$CA = NX + NFP = -\$10 + \$0$$

- 3. Determine GNP: \$150
- 4. Determine GNP and GDP when the coal producer is owned by foreigners
 - GDP: does not change \$150
 - GNP: \$150 \$25 = \$125 subtracting profits of the coal producer

3 A Few Short Questions

- 1. Jim profits \$100 and contributes \$1100 to GDP.
- 2. Acme profits 1000 * \$30 \$10000 \$15000 \$200 = \$4800 and contributes \$15000 to GDP.
- 3. Government contributes \$1 million to GDP.
- 4. Private savings

$$\begin{array}{l} {\rm Total\ Savings} = {\rm Private\ Savings} + {\rm Gov\ Savings} \\ \$200 = PS - \$50 \\ {\rm Private\ Savings} = \$250 \\ \end{array}$$

5. Investment

$$\begin{split} I + CA &= S \\ I &= (S = \$200) - (CA = -\$100) = \$300 \end{split}$$