ECO 311 — Homework 0

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1 Wheat and Bread

- 1. Calculate GDP
 - Value Added: $50 \cdot \$3 + (50 \cdot \$2 20 \cdot \$3) = \190 inventory is value added
 - Expenditure: C + G + I + NX = \$115 + 0 + \$15 + \$75 \$15 = \$190 inventory is investment
 - Income: $(\$50 + \$20) + ((\$45 \cdot 3 \$50 + 5 \cdot \$3) + (\$100 \$20 \$60)) = \$190$ 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 \cdot \$5 + \$20 \cdot 10 25 \cdot \$5 = \150
 - Expenditure: $8 \cdot \$20 + (NX = 2 \cdot \$20 10 \cdot \$5) = \150
 - Income: $\$50 + (15 \cdot \$5 \$50) + \$40 + (10 \cdot \$20 \$40 25 \cdot \$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 $1000 \cdot \$30 \$10000 \$15000 \$200 = \$4800$ and contributes \$15000 to GDP.
- 3. Government contributes \$1 million to GDP.
- 4. Private savings

Total Savings = Private Savings + Gov Savings
$$$200 = PS - $50$$

Private Savings = $$250$

5. Investment

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