

Homework : Formulating LPs.

- A canning company operate two canning plants (A and B)

- There are three suppliers of fresh fruits

- S_1 200 tonnes at \$11/tonne

- S_2 310 tonnes at \$10/tonne

- S_3 420 tonnes at \$9/tonne

- Shipping costs in \$/tonne

From S_1
 S_2
 S_3

To

Plant A

3
2
6

Plant B

3.5
2.6
4

plant capacities and Labour costs

Plant A

Plant B

Capacity

460 tonnes

560 tonnes

Labour cost

\$26/tonne

\$21/tonne

• Selling price \$50/tonne, no limit

① Objective : Find which plant should get how much supply from each grower to maximize the profit.

② Find Dual program.