

### **PROPOSED PROBLEM OF PRODUCTIVITY (SOLVED)**

A company have to pick up 750 kg of oranges in November to do orange juice.  
To do this is necessary:

Labor: 180 hours at 6€ per hour

Transport: 2 truck at 500€ per truck

Machine rental: 15 days at 200€ per day

(a) What is the labor productivity?

$$\text{Labor productivity} = 750 / 180 = 4,16 \text{ kg/hour}$$

(b) What is the multifactor productivity?

$$\text{Multifactor productivity} = 750 / (180 * 6 + 2 * 500 + 15 * 200) = 0,1476$$