

Chapter 2

Answers to Even-Numbered Textbook Problems

2. Productivity in week 1 = 3 houses/5days = 0.6 houses per day
Productivity in week 2 = 2 houses/4days = 0.5 houses per day
Week 1 was more productive.
4. Productivity at facility 1 = 240 chairs/6 workers = 40 chairs per worker
Productivity at facility 2 = 210 chairs/4 workers = 52.5 chairs per worker
Facility 2 is more productive.
6. Using only the non-defective production, productivity has increased from $(60-10)=50$ pieces per day to $(90-1)=89$ pieces per day.
Change in productivity = $(89-50)/50 \times 100\% = 78\%$ increase
8. a. $\$60/(\$15+\$20+\$20) = 1.09$ This number tells us that the lab is charging a bit more than 9% over the expenses of labor, materials, and overhead.
- b. Labor productivity = $\$60/3 \text{ hours} = \20 per hour