

Homework Practice Assignment 1

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Due Saturday 10.21.17 at 11:45 PM

Attempts: Score: / 3

15. A decision at the margin

Hilary is a hard-working college freshman. One Sunday, she decides to work nonstop until she has answered 100 practice problems for her economics course. She starts work at 8:00 AM and uses a table to keep track of her progress throughout the day. She notices that as she gets tired, it takes her longer to solve each problem.

Time	Total Problems Answered
8:00 AM	0
9:00 AM	40
10:00 AM	70
11:00 AM	90
Noon	100

Use the table to answer the following questions.

The marginal, or additional, gain from Hilary's second hour of work, from 9:00 AM to 10:00 AM, is problems.

The marginal gain from Hilary's fourth hour of work, from 11:00 AM to noon, is problems.

Later, the teaching assistant in Hilary's economics course gives her some advice. "Based on past experience," the teaching assistant says, "working on 35 problems raises a student's exam score by about the same amount as reading the textbook for 1 hour." For simplicity, assume students always cover the same number of pages during each hour they spend reading.

Given this information, in order to use her 4 hours of study time to get the best exam score possible, how many hours should she have spent working on problems, and how many should she have spent reading?

- ☐ 0 hours working on problems, 4 hours reading
- ☐ 1 hour working on problems, 3 hours reading
- ☐ 3 hours working on problems, 1 hour reading
- ☐ 4 hours working on problems, 0 hours reading

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