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Cool! I'am really happy

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so many fake sites. this is the first one which worked! Many thanks

III. Solving optimization word problems

A procedure to solve linear programming word problems is illustrated below.

Note how each phrase and number is translated into linear equations and inequalities.

Then, the inequalities are graphed to show the feasibility region.

And, finally, each corner point is tested in the objective function to determine which variable achieve the best outcome.

4 basic steps:

- 1) Identify and label variables
- 2) Determine the objective function
- 3) List and Graph the constraints
- 4) Test corner points of feasibility region

A math test consists of number problems and graphing problems. Number problems are worth 6 points each, and graphing problems are worth 10 points each. You can accurately solve a number problem in 2 minutes and a graphing problem in 4 minutes. Assuming you have 40 minutes and may choose no more than 12 problems to answer, how many of each type should you solve to get the highest score?

1) Identify and label variables: $N = \#$ of number problems $G = \#$ of graphing problems

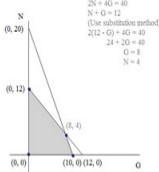
2) Determine the objective function: "how many to get highest score?"
 $6N + 10G = \text{Score}$

3) List and graph the constraints: (time) $2N + 4G \leq 40$
 (problems) $N + G \leq 12$

4) Test the corner points of the feasibility region:

- $(0, 0): 6(0) + 10(0) = 0$
- $(0, 12): 6(12) + 10(0) = 72$
- $(0, 8): 6(0) + 10(8) = 80$
- $(10, 0): 6(10) + 10(0) = 60$

Under the test constraints, answering 8 graphing problems and 4 number problems would get the best score!



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Linear Programming Word Problems And Solutions