

Name

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5. Graph the constraints.
6. Find the corner points (vertices) to the feasible region.
7. Evaluate the objective function at all the feasible corner points
8. Write your answer(s) – does it make sense?

Gold Rush

A gold processor has 2 sources of gold ore, source A and source B.

At least 3 tons of ore must be processed each day.

Ore from source A costs \$20 per ton to process, and ore from source B cost \$10 per ton to process.

Costs must be kept to less than \$80 per day.

The amount of ore from source B cannot exceed twice the amount of ore from source A.

Source A yields 2 oz. of gold per ton, and ore from source B yields 3 oz. of gold per ton.

How many tons of ore from both sources must be processed each day to maximize the amount of gold extracted.

Organize information in a table:

[illegible]

Objective Function

	x	y

Answer: