

Joe Bob's Cutlery makes salad forks and runcible spoons. They sell each fork for \$24 and each spoon for \$28. Each fork requires 4 ounces of pewter and 6 ounces of ebony; each spoon requires 8 ounces of pewter and 5 ounces of ebony. Joe Bob has 1500 ounces of pewter and 1200 ounces of ebony in stock. Assume unlimited demand and allow continuous variation of quantity.

- a) With his current stock, how many forks and runcible spoons should the company make?
- b) If no more ebony is available but pewter is available at \$1.00/ounce, should Joe Bob buy more? If so, how much more? If not, should he sell? How much?
- c) If no more pewter is available but ebony is available at \$2.00/ounce, should Joe Bob buy more? If so, how much more? If not, should he sell? How much?
- d) If both pewter and ebony are available, at \$1/oz and \$2/oz, respectively, how much of each should Joe Bob buy if he only has \$1000 to spend?

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