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Linear Programming Worksheets

1) A carpenter makes bookcases in two sizes, large and small. It takes 8 hours to make a large bookcase and 4 hours to make a small one. The profit on a large bookcase is \$70 and the profit on a small bookcase is \$40. The carpenter can spend only 24 hours per week making bookcases and must make at least two of each size each week. How many of each size must be made per week in order to maximize profit?

2) A tire manufacturer has 2000 units of raw rubber to use in producing radial tires for passenger cars and tractor tires. Each radial tire requires 5 units of rubber; each tractor tire requires 40 units. Labor costs are \$10 for a radial tire and \$14 for a tractor tire. Suppose that a manufacturer does not wish to pay more than \$1500 in labor costs and wishes to make a profit of \$20 per radial tire and \$35 per tractor tire. How many of each kind of tire should be made in order to maximize profit?

1.

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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