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Linear Programming Worksheets

1) A small town is trying to establish a transportation system of large and small vans. It can spend no more than \$100,000 for purchasing both sizes of vehicles and no more than \$1000 per month for maintenance. The town can purchase a small van for \$10,000 and maintain it for \$200 per month. The large vans cost \$20,000 each and can be maintained for \$75 per month. Each large van carries a maximum of 13 passengers and each small van carries a maximum of 9 passengers. Find the maximum number of passengers the transportation system can handle given the constraints. How many large and small vans will they need to maximize the number of passengers it can service?

2) Betty works a maximum of 15 hours per week programming computers and tutoring English. She receives \$10 per hour for programming and \$5 per hour for tutoring. She wishes to work between 3 and 8 hours per week on programming, but always to give more time to tutoring. To maximize the amount she earns, how many hours should she work on each job?

When you learn math
in an interesting way,
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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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