



[Course](#) > [Week 3...](#) > [Week 3...](#) > [Graded...](#)

## Graded Assignment 2 - Railey Motors

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3.5/3.5 points (graded)

Railey Motors is a growing car manufacturing company. It makes economical cars with an aim to make four-wheeler vehicles more accessible to the lower income segments of the society. You are a supply chain executive in the company and you are tasked to determine the locations for your new distribution centers.

Railey has three manufacturing plants - one in Ahmedabad with a maximum monthly production capacity of 4800 units, one in Patna with a maximum monthly production capacity of 4700 units, one in Hyderabad with a maximum monthly production capacity of 1100 units. The distribution centers have to be in locations which work best to cater to the growing demand and reduce the cost of transportation from the plants. Your team has helped you to shortlist two locations for distribution centers and summarize the distance between each plant and distribution center as follows:

Manufacturing Plant	Distribution Center	Shipping Cost (Rupees/Car)
Ahmedabad	Bhopal	16700
	Indore	15700
Patna	Bhopal	9540
	Indore	8980
Hyderabad	Bhopal	8870
	Indore	9670

Additionally, the distribution center demand per month, for each city is as follows:

Distribution Center	Demand (Cars this Month)
Bhopal	4100
Indore	5400

## Part 1

Optimize Railey Motors' transportation costs and remember that since you are shipping cars, you will have to ship whole units.

Find the optimal cost for Railey Motors.

Give your answer in rupees, without currency symbol or commas. For example, if your answer is 12,345,678 rupees, enter 12345678 as your answer.



How many cars will Railey Motors ship from Ahmedabad to Bhopal per month in the optimal solution?



You have used 1 of 2 attempts

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✓ Correct (3.5/3.5 points)

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## Part 2

1.5/1.5 points (graded)

If each car brings in a profit of 29809 rupees per month before transportation costs, how much monthly profit does the company make on all cars sold after paying for all transportation costs?

Give your answer in rupees, without currency symbol or commas. For example, if your answer is 12,345,678 rupees, enter 12345678 as your answer.



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You have used 1 of 2 attempts

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✓ Correct (1.5/1.5 points)

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