

# TESLA CHARGING STATIONS

Use [TPjavaOnline](#), [OnlineJava](#), or [OnlineGDB](#) for this activity.

## Here is your challenge:

In an effort to build up transportation on MARS, you have been assigned to determine the number of charging stations needed for new road routes based on the lowest range ability of the Tesla vehicles. You will need to write a program to output the number of required charging stations between points A⇒ and B⇒.

1. Use the [MARS Mileage Guide](#) to find the distance between:  
A⇒(Mars Pathfinder) and B⇒("Inca City") in miles.
2. Research **Tesla** vehicles to determine which model has the lowest range. Determine a safe distance (use a nice round number) between stopping points which can recharge any Tesla vehicle before it runs out of "gas" (lowest range car should have approximately 10 miles left before "empty").
3. Calculate the number of charging stations that will be required between point A⇒ and point B⇒ to get the car to and from each location safely.
4. Write a program to generate an output with a similar result. ↴



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*****
Enter your first location: Mars Pathfinder
Enter your second location: Inca City
Enter distance between the two locations: 1234

Enter lowest range Tesla vehicle model: A
Enter the vehicle's range on one charge: 123

*****

Distance between Mars Pathfinder and Inca City is 1234 miles.
The Model A has the lowest traveling range of 123 miles before recharge.
You will need to build 11 power stations.
Stations will need to be spaced at a maximum of 113 miles apart.

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NOTE: The distance, model, and range information is inaccurate.
      You will need to research this information.
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