

Steps to complete this project:

Mark the steps as checked when you complete them.

1. Open the start file **EX2021-ChallengeYourself-3-3**. The file will be renamed automatically to include your name. Change the project file name if directed to do so by your instructor, and save it.
2. If the workbook opens in Protected View, click the **Enable Editing** button in the Message Bar at the top of the workbook so you can modify it.
3. The vehicle information in cells **A11:C17** on the *Data* sheet will be used in lookup formulas later in this project. Create and name the ranges as follows. *Hint: You can use Create from Selection for the last three ranges.*
 - a. Cells **A11:C17** name: **VehicleData**
 - b. Cells **A11:A17** name: **VehicleType**
 - c. Cells **B11:B17** name: **RegistrationFee**
 - d. Cells **C11:C17** name: **Maintenance**
4. Go to the **Purchase** worksheet.
5. Calculate the average MPG for each vehicle.
 - a. Enter a formula in cell **C10** using the AVERAGE function to calculate the average value of **C8:C9**. Use only one argument.
 - b. Copy the formula to the appropriate cells for the other vehicles.
 - c. Excel will detect a possible error with these formulas. Use the **SmartTag** to ignore the error. *Hint: Use the **SmartTag** while cells **C10:F10** are selected and the error will be ignored for all the selected cells.*
6. Use VLOOKUP to calculate the registration fee for each vehicle.
 - a. Enter a formula in cell **C12** to look up the registration fee for the first vehicle. Use the vehicle type in cell **C4** as the *Lookup_value* argument. Use the **VehicleData** named range as the *Table_array* argument. The registration fees are located in column **2** of the data table. Require an exact match.
 - b. Copy the formula to the appropriate cells for the other vehicles.
7. Use XLOOKUP to calculate the maintenance cost for each vehicle.
 - a. Enter a formula in cell **C13** to look up the maintenance for the first vehicle. Use the vehicle type in cell **C4** as the *Lookup_value* argument. Use the **VehicleType** named range as the *Lookup_array* argument. Use the

Reset Progress 

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