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// Travel Efficiency Program - MPG.cpp
// Programmer: Mr. Smoyer
//
// Purpose: Calculates miles per gallon and price per mile when
// given miles traveled, number of gallons used, and gas price.

#include <iostream>

using namespace std;

int main()
{
    // Variable declarations

    float MilesTraveled;      //stores number of miles
    float GallonsUsed;        //stores number of total gallons
    float PricePerGallon;     //stores price per gallon
    float PricePerMile;       //stores price per mile
    float MilesPerGallon;     //stores number of miles per gallon

    // Ask user for input values

    cout << "How many miles did you travel? ";
    cin >> MilesTraveled;
    cout << endl << "How many gallons of gas did you use? ";
    cin >> GallonsUsed;
    cout << endl << "How much did one gallon of gas cost? $";
    cin >> PricePerGallon;

    // Divide the number of miles by the number of gallons to get
    // MPG.

    MilesPerGallon = MilesTraveled / GallonsUsed;

    // Divide price per gallons by miles per gallon
    // to get price per mile.

    PricePerMile = PricePerGallon / MilesPerGallon;

    // Output miles per gallon and price per mile

    cout << endl << "You got " << MilesPerGallon << " miles per
    gallon " << endl;
    cout << endl << "and each mile cost $" << PricePerMile << endl
    << endl << endl;

    return 0;
}

```

