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// Travel Efficiency
// Programmer: Jonathan Kleid
//
// Purpose: Calculates miles per gallon and price per mile when
// given miles traveled, number of gallons used, and gas price.

#include <iostream.h> // necessary for cin and cout commands
#include <stdio.h>    // necessary for getchar command
#include <iomanip.h>  // necessary for ios flags

main()
{
    // Variable declarations
    float MilesTraveled;    // stores number of miles
    float GallonsUsed;      // stores number of total gallons used
    float PricePerGallon;   // stores price per gallon
    float PricePerMile;     // stores the price per mile
    float MilesPerGallon;   // stores the number of miles per gallon

    // Set precision for output of real numbers
    cout << setiosflags(ios::fixed) << setprecision(2);

    // Ask user for input values.
    cout << "How many miles did you travel? ";
    cin  >> MilesTraveled;
    cout << "How many gallons of gas did you use? ";
    cin  >> GallonsUsed;
    cout << "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 gallon by miles per gallon
    // to get price per mile.
    PricePerMile = PricePerGallon / MilesPerGallon;

    // Output miles per gallon and price per mile.
    cout << "You got " << MilesPerGallon << " miles per gallon," << endl;
    cout << "and each mile cost $" << PricePerMile << endl << endl;

    cout << "Hit enter to continue ..." << endl;
    getchar();

    return 0;
}

```