public static void main(String[] args) {

// TODO code application logic here

byte daysPerWkClMt = 3; //Number of days per week the class meets

short numTmClaMtPsem = 15; //Number of times class meet per semester

double CarMilage = 18;

double gasPrice = 2.12;

int distToPkv = 23; //Distance to Parkview

System.out.println("GIVEN THIS DATA");

System.out.println("Class info:");

System.out.println("\tnumber days/week class meets: 3");

System.out.println("\tnumber of weeks in semester: 15");

System.out.println("Gas info:");

System.out.println("\tcar's average mpg: 18 miles");

System.out.println("\tprice of gas per gallon: $2.12");

System.out.println("Journey info:");

System.out.println("\t1-way distance to Parkview: 23 miles");

// step 1: calculate total number of times class meet

int totalNumTmClaMtPsem= daysPerWkClMt \* numTmClaMtPsem;

// step 2: calculate total rond trip distance

int roundTripDist = distToPkv \* 2;

double costForOneTrip = (((roundTripDist)/CarMilage)\* gasPrice);

//Total number of Driven Distance per semester

int totalDrDistPersem = roundTripDist \* totalNumTmClaMtPsem;

int NumGalPersem = (int) ((totalDrDistPersem)/(CarMilage));

double totalCost = (NumGalPersem \* gasPrice);

double onePerson = (double)totalCost;

double twoPerson = (double) (totalCost/2);

double threePerson = (double)(totalCost/3);

System.out.println("");

System.out.println("THE RESULTS");

System.out.println("Number of round trips/semester: " + totalNumTmClaMtPsem);

System.out.println("Total number of miles/semester: " + totalDrDistPersem);

System.out.printf("Cost for 1 round-trip (for gas): $%.2f\n", costForOneTrip);

System.out.printf("Total cost for semester (for gas): $%.2f\n", totalCost);

System.out.println(" ");

System.out.println("Cost per person for the semester");

System.out.printf("For 1 Person: $%.2f\n", onePerson);

System.out.printf("For 2 people sharing: $%.2f\n", twoPerson);

System.out.printf("For 3 people sharing: $%.2f\n", threePerson);