**Worksheet 10.1 - Answers**

**Inheritance Review**

1. Your $20000 Ford costs $1271.74 in gas each year!

Your $45000 Lexus convertible costs $1281.25 in gas each year!

It has 4 doors and carries 5 passengers.

Your $32000 Chevy costs $2437.50 in gas each year!

This 4X4 can carry 1500 pounds and can tow 10000 pounds.

2.

**class** SportsCar extends Car{

**private** String myColor; // color of sports car

**private** **double** myEngine; // engine size in liters

**private** String mySuspension; // firm, soft, touring, etc.

**private** String myTires; // regular, wide, low profile, etc.

// constructor

**public** SportsCar(String brand, String type, **int** price, **double** mileage,

**double** gasPrice, **int** miles, **int** passengers, **int** numDoors, String color,

**double** engine, String susp, String tires){

// uses Car's constructor

**super**(brand, type, price, mileage, gasPrice, miles, passengers, numDoors);

// initializes what's unique to SportsCar

myColor = color; myEngine = engine; mySuspension = susp; myTires = tires;

}

**public** String getColor(){

**return** myColor;

}

**public double** getEngine(){

**return** myEngine;

}

**public** String getSuspension(){

**return** mySuspension;

}

**public** String getTires(){

**return** myTires;

}

// overloads toString() method() using super

**public** String toString(){

**return** super.toString() + "\nYour cool " + myColor + " sports car has a "

+ formatter(“%.2f”, myEngine) + " liter engine, " + mySuspension

+ " suspension and " + myTires + " tires.";

}

}