**Produce Shipping Cost Summary**

Get Customer Information

Get Desired Amount of Sand

Set Small and Large Truck Dimensions

Get Distance to Customer

Get Driver Hourly Rate

Set MPG for Each Truck Size

Set Truck Speeds

Get Price Per Gallon of Diesel Fuel

Calculate Small and Large Truck Volumes

Calculate Number of Truckloads for Each Truck Size

Calculate How Long Driver Drives

Calculate Fuel Usage

Calculate Driver’s Wages

Calculate Diesel Fuel Cost

Calculate Overall Cost of Each Truck Size

Display Customer Information

Display Shipping Cost Summary

**Get Customer Information**

Display “Enter name: “ to user

Get name from user

Display “Enter address: “ to user

Get address from user

**Get Desired Amount of Sand**

Display “Enter the amount of sand wanted (in cubic yards): “ to user

Get amountOfSand from user

**Set Small and Large Truck Dimensions**

Set smallLength to 9.5 feet

Set smallWidth to 5.5 feet

Set smallHeight to 3.0 feet

Set largeLength to 10.5 feet

Set largeWidth to 6.0 feet

Set largeHeight to 3.5 feet

**Get Distance to Customer**

Display “Enter the distance (one-way) to customer: “ to user

Get distanceToCustomer from user

**Get Driver Hourly Rate**

Display “Enter the driver’s hourly pay rate: “ to user

Get hourlyRate from user

**Set MPG for Each Truck Size**

Set smallMPG to 7.0

Set largeMPG to 5.1

**Set Truck Speeds**

Set smallMPH to 45

Set largeMPH to 40

**Get Price Per Gallon of Diesel Fuel**

Display “Enter price per gallon of diesel fuel: “ to user

Get pricePerGallon from user

**Calculate Small and Large Truck Volumes**

Set smallVolume to smallLength \* smallWidth \* smallHeight \* 4.0 / 3.0 / 27.0

Set largeVolume to largeLength \* largeWidth \* largeHeight \* 4.0 / 3.0 / 27.0

**Calculate Number of Truckloads for Each Truck Size**

Set numSmallLoads to amountOfSand / smallVolume [round UP]

Set numLargeLoads to amountOfSand / largeVolume [round UP]

**Calculate How Long Driver Drives**

Set smallHours to distanceToCustomer \* 2 \* numSmallLoads / smallMPH

Set largeHours to distanceToCustomer \* 2 \* numLargeLoads / largeMPH

**Calculate Fuel Usage**

Set smallGallons to distanceToCustomer \* 2 \* numSmallLoads / smallMPG

Set largeGallons to distanceToCustomer \* 2 \* numLargeLoads / largeMPG

**Calculate Driver’s Wages**

Set smallWages to smallHours \* hourlyRate

Set largeWages to largeHours \* hourlyRate

**Calculate Diesel Fuel Cost**

Set smallFuelCost to pricePerGallon \* smallGallons

Set largeFuelCost to pricePerGallon \* largeGallons

**Calculate Overall Cost of Each Truck Size**

Set overallSmallCost to smallFuelCost + smallWages

Set overallLargeCost to largeFuelCost + largeWages

**Display Customer Information**

Display “Customer: “, name to user

Display “Address: “, address to user

**Display Shipping Cost Summary**

Display “Item”, “Small Truck”, “Large Truck” to user

Display “Truck Volume:”, smallVolume, largeVolume to user

Display “Number of truckloads:”, numSmallLoads, numLargeLoads to user

Display “Driver wages”, smallWages, largeWages to user

Display “Fuel costs:”, smallFuelCost, largeFuelCost to user

Display “Overall costs:”, overallSmallCost, overallLargeCost to user