**Provide Pricing Information**

Set Dimensions of Each Truck

Set Cubic Feet to Volume Factor

Set Per Mile Rates for Each Truck

Get Customer Info

Calculate Number of Trucks

Calculate Costs

Display Pricing Info

**Set Dimensions of Each Truck**

Set trailerLength to 42.46 feet

Set trailerHeight to 8.2 feet

Set trailerWidth to 12.4 feet

Set truckLength to 19.35 feet

Set truckHeight to 7.54 feet

Set truckWidth to 7.6 feet

**Set Cubic Feet to Volume Factor**

Set conversionFactor to 7.480543

**Set Per Mile Rates for Each Truck**

Set trailerMileRate to $1.398

Set truckMileRate to $1.018

**Get Customer Info**

Display “Enter customer name: “ to user

Get customerName from user

Display “Enter customer street address: “ to user

Get customerStreetAddress from user

Display “Enter customer city/state/zip: “ to user

Get customerCityStateZip from user

Display “Enter amount of gallons: “ to user

Get amountOfGallons from user

Display “Enter distance travelled: “ to user

Get distanceTravelled from user

**Calculate Number of Trucks**

Set trailerRadius to ((trailerHeight + trailerWidth) / 2.0) / 2.0

Set trailerVolumeGallons to 3.1416 \* trailerRadious2 \* trailerLength \* conversionFactor

Set truckRadius to ((truckHeight + truckWidth) / 2.0) / 2.0

Set truckVolumeGallons to 3.1416 \* truckRadious2 \* truckLength \* conversionFactor

Set numberOfTrailers to amountOfGallons / trailerVolumeGallons [truncated]

Set remainingGallons to remainder of amountOfGallons / trailerVolumeGallons

Set numberOfTrucks to remainingGallons / truckVolumeGallons [round up]

**Calculate Costs**

Set trailerCosts to numberOfTrailers \* trailerMileRate \* distanceTravelled

Set truckCosts to numberOfTrucks \* truckMileRate \* distanceTravelled

Set totalCosts to trailerCosts + truckCosts

**Display Pricing Info**

Display customerName to user

Display customerStreetAddress to user

Display customerCityStateZip to user

Display “Trailer volume: “ trailerVolumeGallons to user

Display “Truck volume: “ trailerVolumeGallons to user

Display “Gallons shipped: “ ammountOfGallons to user

Display “Number of trailers: “ numberOfTrailers to user

Display “Number of trucks: “ numberOfTrucks to user

Display “Distance tavelled: “ distanceTravelled to user

Display “Cost of trailers: $“ trailerCosts to user

Display “Cost of trucks: $“ trucksCosts to user

Display “Total Costs: $” totalCosts to user