

Name:

You must convince your new boss, the vice president of materials distribution, that the figures in your Shipping Manifest are correct and represent the least-cost scenario. For each product, the boss asked a series of questions to test your knowledge.

The Long Haul

Write a report to answer the boss's questions. Use information from the worksheets to write the report. Provide as much detail as possible so your new boss will have complete confidence in your decisions.

Question 1: Apples

- a) Explain how you determined how many pallets of apples will fit into a car and how many cars are needed to ship all the pallets.

- b) How much did you save the company by finding the least-cost scenario? Explain how you know.

Question 2: Molded Dashboard Covers

a) Explain how you determined how many pallets will fit in a car.

b) Explain how you found the number of cars needed and the total cost.

Question 3: Road Salt

a) Explain how you determined the volume of a covered hopper.

b) Explain how you determined the volume of salt and the number of cars required to ship it.

Question 4: Barley

a) Explain how you determined the volume, in cubic feet, of one car.

b) Explain how you determined the volume of barley.

Question 5: Liquid Fertilizer

Explain how you found the number of cars required to ship the liquid fertilizer.

Question 6: Plastic Chemicals

Explain how you determined how much plastic chemical will fit into each car and the number of cars required to ship all the material.

Question 7: Fresh-Cut Logs

Explain how you know that the logs will fit into a car and how many cars are required to ship them.

Shipping Manifest

This section of the report summarizes the plans. For each cell in the tables, insert the information you ultimately used to make the final decision about the number of cars required to ship the materials. Be certain to include the units.

From	To	Freight	Amt of Freight	Car Type	Amt of Freight/Car	Cars	Legs	Cost/Leg	Total Cost
Boston, MA	Chicago, IL	Apples	7,500 cases	Refrigerated Boxcar					
Boston, MA	Detroit, MI	Dashboard Covers	500 pallets						
Newark, NJ	Pittsburgh, PA	Road Salt	200 tons	Covered Hopper					
Pittsburgh, PA	Indianapolis, IN	Liquid Fertilizer	140,000 gallons	Tanker Car					

From	To	Freight	Amt of Freight	Car Type	Amt of Freight/Car	Cars	Legs	Cost/Leg	Total Cost
Detroit, MI	Chicago, IL	Cedar Logs	20 logs	Plain Gondola					
Chicago, IL	Newark, NJ	Plastic Chemicals	160,000 gallons	Tanker Car					
Indianapolis, IN	Boston, MA	Barley	2 full grain silos	Covered Hopper					

Loading Instructions

Indicate the order in which the cars should be attached in Boston. At each stop, make an ordered list of what the loading crew should do. Indicate, by type of car and cargo, what should be loaded or unloaded. Be sure to indicate how many of each car the loading crew should expect to load or unload.

Question 8

Boston

Newark

Pittsburgh

Indianapolis

Chicago

Detroit

Chicago

Indianapolis

Newark

Boston