Managerial Accounting Make or Buy Decisions Illustration

Manufacturing companies must consider cost saving decisions every day. They must review their process to see if it is better to make the products they sell or some part of the product or buy it from a whole seller and then re-sell it. To illustrate a make or buy decisionlet's look at the following example.

ELM Skateboards Inc. is now producing the heavy duty bearing that is used in its most popular skateboard line of skateboards. The company's accounting department reports the following costs of producing 8000 units of the bearings internally each year:

\$6	\$48,000
\$4	\$32,000
\$1	\$8,000
\$3	\$24,000
ial equip. \$2	\$16,000
erhead \$5	<u>\$40,000</u>
\$21	\$168,000
	\$4 \$1 \$3 ial equip. \$2 erhead \$5

An outside supplier offered to sell 8,000 bearings to ELM at a price of only \$19 each. Should the company stop producing the bearings internally and buy them from the outside supplier? When making this decision, the focus should always be on the relevant cost (those that differ between the alternatives). The costs that differ between alternatives consist of the costs that could be avoided by purchasing the bearings from outside supplier. If the costs that can be avoided by purchasing the bearings and reject the outside supplier's offer. On the other hand, if the costs that can be avoided by purchasing the bearings from the bearings from the outside supplier's offer. On the other hand, if the costs that can be avoided by purchasing the bearings from the outside supplier total more than \$19, the outside supplier soffer should be accepted. You should use the setup below to organize your relevant/ avoidable cost.

Total relevant/avoidable Cost- 8000 Units

<u>MakeBuy</u>		
Direct Material (8000 x \$6 per unit)	\$48,000	
Direct Labor	\$32,000	
Variable overhead (8000 x\$4 per unit)	\$8,000	
Supervisor's Salary	\$24,000	
Depreciation of special equipment (not relevant)		
Allocated general overhead (not relevant)	
Outside purchase price		<u>\$152,000</u>
Total cost	\$112,000	\$152,000
Difference in favor of continuing to make	\$40,000)

This instructional aid was prepared by the Tallahassee Community College Learning Commons

Note that depreciation of special equipment is listed as one of the cost of producing the bearings internally. Because the equipment has already been purchased, this depreciation is a sunk cost and is therefore irrelevant. If the equipment could be used to make other product, this could be relevant as well. However, we assume that the equipment has no salvage value and it has no other use.

Also, the company is allocating a portion of its general overhead cost to the bearings. Any portion of this general overhead cost that would actually be eliminated if the bearings were purchased rather than made would be relevant in this analysis. However, the general overhead cost is likely a common cost to all the company's items produced in the factory and would continue unchanged even if the bearings were purchased outside (is not relevant).

The variable cost (Direct Material, Direct Labor, and Variable Overhead) can be avoided if the company o not makes the bearings. Also we are assuming the supervisor's salary can also be avoided.

Because at cost \$40,000 less to make the bearings internally than to buy them from the outside supplier.