

What is a Make or Buy Decision?

Worksheet

A make or buy decision compares the relevant (avoidable) cost of making a part internally to the cost of buying it externally, including the opportunity cost of any freed capacity; the cheaper relevant cost wins.

Questions

1. A part costs \$10/unit variable plus \$15,000 avoidable fixed cost to make 5,000 units. A supplier offers \$12/unit. No opportunity cost. What is the relevant cost to make?
A) \$50,000
B) \$65,000
C) \$60,000
D) \$75,000
2. Using the same numbers, what is the cost to buy?
A) \$50,000
B) \$60,000
C) \$65,000
D) \$70,000
3. Should the company make or buy?
A) Make, it's cheaper
B) Buy, it's cheaper
C) Indifferent
D) Cannot determine
4. Which of these is IRRELEVANT to a make or buy decision?
A) Avoidable fixed costs
B) Opportunity cost of capacity
C) Sunk cost of old equipment already purchased
D) Purchase price from the supplier
5. A company can make a part for \$8 variable cost/unit plus \$20,000 avoidable fixed costs, needing 10,000 units. A supplier offers the part at \$9/unit. There is no alternative use for the freed capacity. Should it buy?
6. Same numbers as above, but the freed factory space could be rented out for \$15,000. Recompute the decision.
7. A firm makes 5,000 units at \$12 variable cost + \$30,000 avoidable fixed cost. A supplier quotes \$16/unit with no opportunity cost. Make or buy?
8. Define: What costs matter in a make or buy decision?
9. Define: What is opportunity cost in this context?
10. Define: Should sunk costs affect the decision?

Answer Key

1. B) $\$65,000$ - Cost to make = $(105,000) + 15,000 = 65,000$.
2. B) $\$60,000$ - Cost to buy = $125,000 = 60,000$.
3. B) Buy, it's cheaper - Buying costs $60,000$ vs making at $65,000$, so buy is cheaper by $5,000$.
4. C) Sunk cost of old equipment already purchased - Sunk costs don't change between alternatives, so they're excluded from the analysis.
5. Cost to make = $(810,000) + 20,000 = 80,000 + 20,000 = 100,000$ Cost to buy = $910,000 = 90,000$ Since buying ($90,000$) is cheaper than making ($100,000$), buy the part - save $\$10,000$.
6. Relevant cost to buy = $(910,000) 15,000 = 90,000 15,000 = 75,000$ Cost to make = $100,000$ Buying is now even more favorable - save $\$25,000$ instead of $\$10,000$.
7. Cost to make = $(125,000) + 30,000 = 60,000 + 30,000 = 90,000$ Cost to buy = $165,000 = 80,000$ Buying saves $90,000 80,000 = \$10,000$, so buy.
8. Only relevant (avoidable) costs that differ between making and buying - sunk costs and unavoidable fixed costs are ignored.
9. The value of the best alternative use for the capacity freed up if the company buys instead of makes.
10. No - sunk costs are the same regardless of the choice, so they are irrelevant.

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