

Table 1: Mining Areas and Times

Initial area before mining (cm ²)	
Time for mining (s)	
Area of chocolate chips (cm ²)	
Area for restoration (cm ²)	

Table 2: Profit and Loss (P&L)

Land purchase cost	-\$
Equipment cost	-\$
Labor cost	-\$
Sale profit	+\$
Restoration cost	-\$
Net Profit	\$

Analysis

1. When mining, what are some costs to consider?
2. What kind of resource is mineral ore?
3. What could you do to make the costs less in order to generate higher profit?
4. Were chocolate chips evenly distributed throughout the cookie? How does that model real-life minerals?
5. Did knowing that the land must be restored affect the time?
6. Were your costs more or less than the sale profit?
7. What is your advice to other cookie miners to increase profitability?
8. What additional costs may miners encounter in real-world mining?