

```
import pandas as pd

sales_data = pd.read_csv("sales_data_1.csv")
sales_data['Date'] = pd.to_datetime(sales_data['Date'])
sales_data['Profit'] = (sales_data['Selling price'] - sales_data['Buying price']) * sales_data['Quantity sold']

overall_gross_margin = sales_data['Profit'].sum()
print("1. Overall Gross Margin:", overall_gross_margin)
most_profitable_vendor = sales_data.groupby('Firm bought from')['Profit'].sum().idxmax()
print("2. Most Profitable Vendor:", most_profitable_vendor)
least_profitable_customer = sales_data.groupby('Customer')['Profit'].sum().idxmin()
print("3. Least Profitable Customer:", least_profitable_customer)
most_profitable_day = sales_data.groupby(sales_data['Date'].dt.day_name())['Profit'].sum().idxmax()
print("4. Most Profitable Day of the Week:", most_profitable_day)
least_profitable_day = sales_data.groupby(sales_data['Date'].dt.day_name())['Profit'].sum().idxmin()
print("5. Least Profitable Day of the Week:", least_profitable_day)
```

1. Overall Gross Margin: 31482.749999999996
2. Most Profitable Vendor: Vendor4
3. Least Profitable Customer: Customer3
4. Most Profitable Day of the Week: Monday
5. Least Profitable Day of the Week: Sunday