

[illegible]

Answer:
 1. **Identify the dependent variable and predictor**
 a. **Y:** 12-18 months (M1), 18-24 months (M2), 24-30 months (M3)
 b. **X:** Gender (Male, Female)
 c. **Control:** Age (months), SES (low, middle, high), Ethnicity (Caucasian, African American, Hispanic, Asian, Other)

2. **Formulate your research hypotheses**
 a. **H1:** 12-18 months (M1), 18-24 months (M2), 24-30 months (M3)
 b. **H2:** Gender (Male, Female)
 c. **H3:** Age (months), SES (low, middle, high), Ethnicity (Caucasian, African American, Hispanic, Asian, Other)

3. **Methods**
 a. **Identify the dependent variable and predictor**
 a. **Y:** 12-18 months (M1), 18-24 months (M2), 24-30 months (M3)
 b. **X:** Gender (Male, Female)
 c. **Control:** Age (months), SES (low, middle, high), Ethnicity (Caucasian, African American, Hispanic, Asian, Other)

4. **Statistical test**
 a. **Y:** 12-18 months (M1), 18-24 months (M2), 24-30 months (M3)
 b. **X:** Gender (Male, Female)
 c. **Control:** Age (months), SES (low, middle, high), Ethnicity (Caucasian, African American, Hispanic, Asian, Other)

A. Complete the Table.

At 100,000, 200,000, 300,000, and 400,000 units, calculate the average unit cost.

Units	Total Cost	Average Unit Cost
100,000	\$1,000,000	\$10.00
200,000	\$1,200,000	\$6.00
300,000	\$1,300,000	\$4.33
400,000	\$1,400,000	\$3.50

B. Interpretation.

At 100,000, 200,000, 300,000, and 400,000 units, calculate the average unit cost.

Units	Total Cost	Average Unit Cost
100,000	\$1,000,000	\$10.00
200,000	\$1,200,000	\$6.00
300,000	\$1,300,000	\$4.33
400,000	\$1,400,000	\$3.50

C. Another Set of Examples.

At 100,000, 200,000, 300,000, and 400,000 units, calculate the average unit cost.

Units	Total Cost	Average Unit Cost
100,000	\$1,000,000	\$10.00
200,000	\$1,200,000	\$6.00
300,000	\$1,300,000	\$4.33
400,000	\$1,400,000	\$3.50

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