Name_____ Date_____ Core_____

Penny Predictions

You will be placing drops of water on various coins with a medicine dropper. First you will predict how many drops each coin will hold. Then you will count the number of drops each coin holds before the water runs off.

Problem: To what extent does the size of coins affect the number of drops of water each coin will hold?

Hypothesis: _____

_____

Materials: _____

_____

Procedures:

1. Predict how many drops of water the penny will hold. Record your prediction on the table below.
2. Drop the water on the penny. Record how many drops the penny held.
3. Dry the penny and repeat step 2 two more times. Record your findings below.
4. Average your three trials for a more accurate idea of how many drops of water a penny will hold. Round your answer to the nearest whole number.
5. Do the investigation again using different coins. Record the results below.

Results: Use the chart below to record your data.

Type of Coin	Prediction	Trial #1	Trial #2	Trial #3	Average
penny					
nickel					
dime					
quarter					

Conclusion:

_____

_____

_____

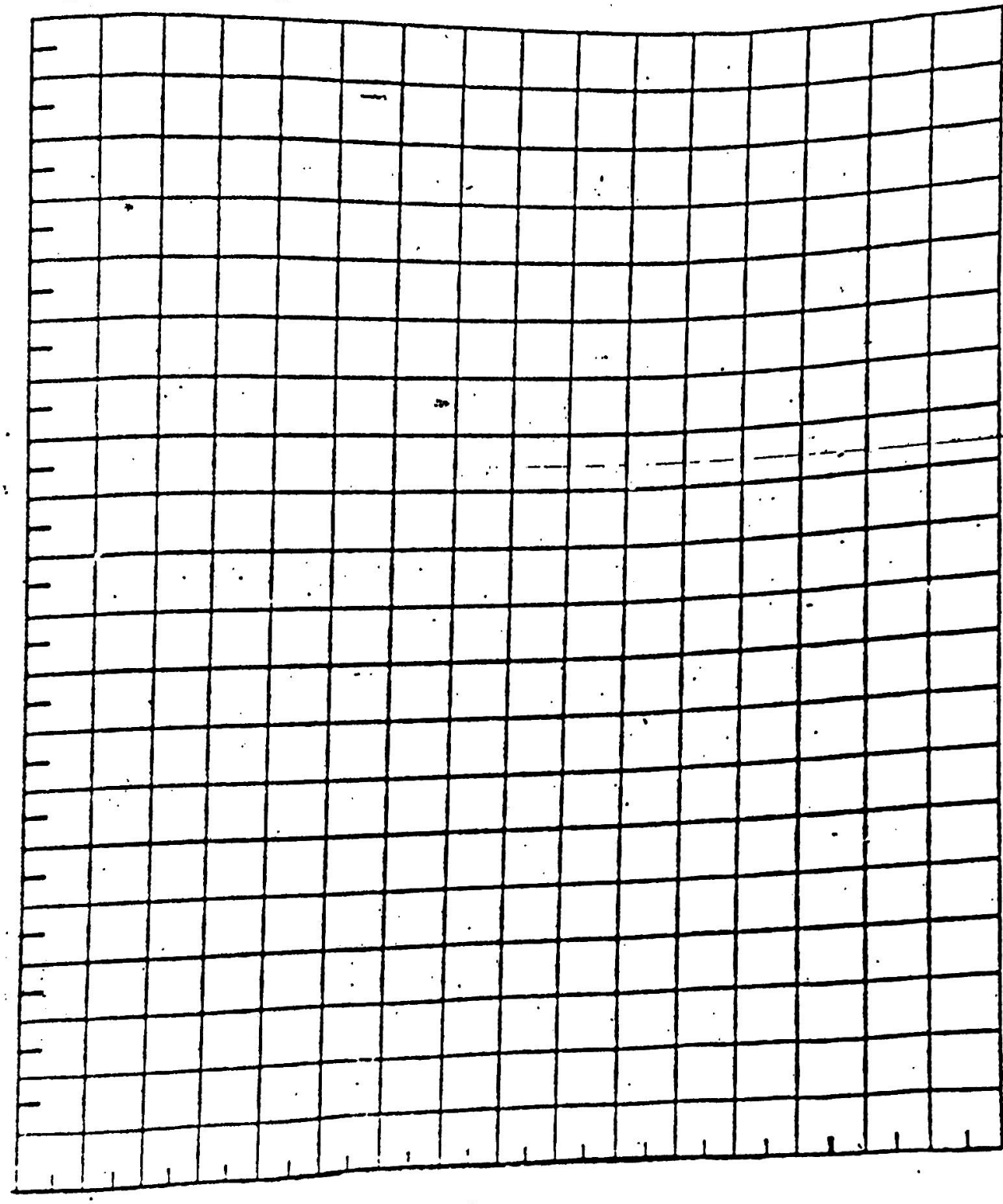
Penny Predictions: Class Data

Coins/ Group #	Penny	Nickel	Dime	Quarter
1				
2				
3				
4				
5				
6				
7				
8				
Total				
÷ by				
Calculator Display				
Rounded Class Average				

Name _____

Date _____

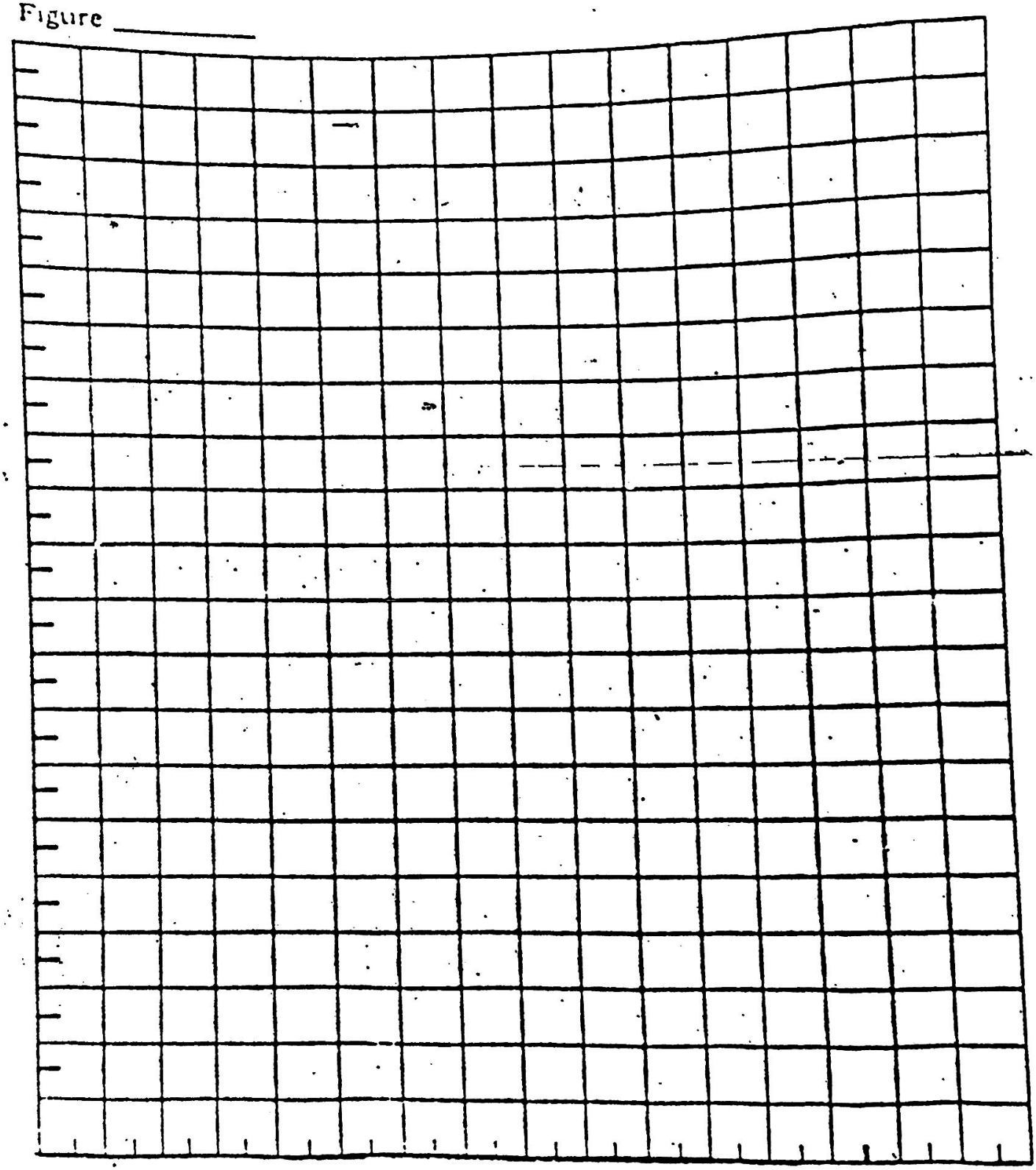
Figure _____



Name _____

Date _____

Figure _____



Penny Predictions Follow-Up:

Independent Variable: _____

Dependent Variable: _____

Constants: _____

_____

Control: _____

Human Errors	Instrument Errors