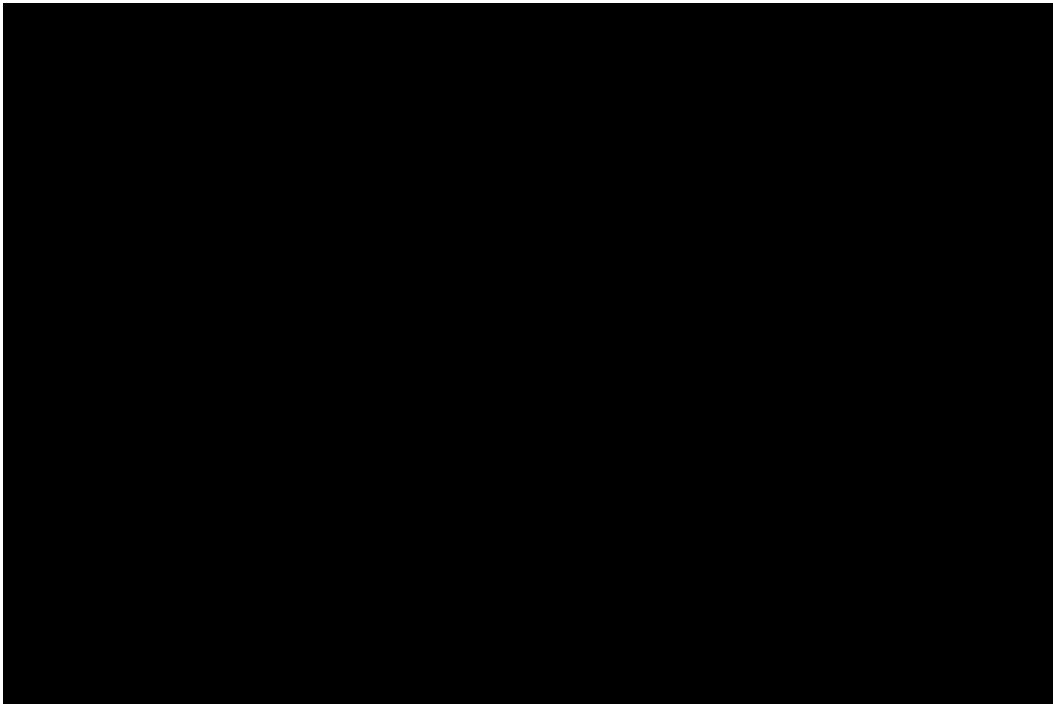


Formative Assessment

A. Fill in the blank with the correct word or phrase.

1. The x -variable is called the _____ variable.
2. The y -variable is called the _____ variable.
3. In the regression model, the random variable ε is called the _____.



B. For each set of data below, do the following.

- a. Develop a scatter diagram for these data. Draw a straight line through the data.
 - b. Compute the value of b_0 and b_1 .
 - c. Determine the least squares estimated regression line. Give an interpretation of b_0 and b_1 .
 - d. Use the estimated regression equation to predict the value of the independent variable for each of the x -values given. Find the residuals.
1. The data below gives the test scores and the statistics grades of a random sample of 8 students.

<i>Test Score</i> (x)	60	66	44	70	50	64	88	62
<i>Statistics Grade</i> (y)	73	76	61	77	68	74	94	68

2. In an urban area, a random sample of 8 houses was chosen. Data on floor areas (in square meters) and house prices (in million pesos) are tabulated below.

<i>Floor Area (x)</i>	80	76	60	58	58	90	90	100	140
<i>House Price (y)</i>	1.5	1.3	0.9	1.0	1.0	1.9	2.0	2.5	3.0

