

**Background Information:**

**Name:** \_\_\_\_\_

**ID-NO:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**Instructions:** Study the data that generated the following graphs.

**Part 1: Graphs**

Observe the following graphs that compare the monthly spending with the monthly income.

**Exercise:** The corresponding values for income (X-axis) and expenses (Y-axis) are given in the following table.



**Questions:**

1. What is the correlation coefficient of the data shown in the following graph?



**Answers:**

1.

According to the graph, the correlation coefficient is approximately 0.95.

2. What is the correlation coefficient?

Monthly Income and Expenses				
Income (X)	Expense (Y)	Income (X)	Expense (Y)	Income (X)
10,000	10,000	20,000	20,000	30,000
20,000	20,000	30,000	30,000	40,000
30,000	30,000	40,000	40,000	50,000
40,000	40,000	50,000	50,000	60,000
50,000	50,000	60,000	60,000	70,000

3. A scatter plot is shown for the data in the table above. The correlation coefficient is 0.95. What is the correlation coefficient of the data in the table above?

\_\_\_\_\_

4. Using the scatter plot, determine the correlation coefficient of the data in the table above. What is the correlation coefficient?

# Sas Curriculum Pathways Answers To Questions Planetary Motion

**Raffaela Di Napoli**



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