Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

1) The data below are the ages and systolic blood pressures (measured in millimeters of mercury) of 9 randomly selected adults. Calculate the correlation coefficient, r.

1) _____

Age, x	41	44	48	51	54	56	60	64	68
Pressure, y	111	115	118	126	137	140	143	145	147

a. Draw a scatter plot

b. Find the correlation coefficient r

c. Find the equation of the regression line.

d. Interpret coefficient a and b

e. Predict the blood pressure for someone who is 47 years old

f. At $\alpha=0.05$, test whether there is positive correlation between age and blood pressure