**Homework: Pretest summary statistics review**

**1a.** Jim heated a liquid until it boiled. He measured the temperature of the liquid as it cooled. The following table shows its temperature,  degrees Celsius,  minutes after it boiled.



Write down the independent variable. *[1 mark]*

**1b.** Write down the boiling temperature of the liquid. *[1 mark]*

**1c.** Jim believes that the relationship between  and  can be modelled by a linear regression equation.

Jim describes the correlation as **very strong**. Circle the value below which best represents the correlation coefficient. *[2 marks]*



**1d.** Jim’s model is , for . Use his model to predict the decrease in temperature for any 2 minute interval. *[2 marks]*