

Worksheet 2015-12EQ-00001(1)

The owner of a soup kitchen notes that the relation between the number of cups of soup sold and the temperature forecast on the TV for the day looks as follows:

Day:	1	2	3	4	5	6	7	8	9	10
Temperature in °C:	12	10	8	5	8	4	1	0	4	2
Cups of soup:	14	18	23	38	25	56	69	85	52	76

(1) Draw a scatter plot with the temperature on the x-axis and the number of cups on the y-axis.

(2) Calculate the equation of the regression line.

(3) Draw the regression line in on the scatter plot in (1).

(4) Identify any outlier(s), if applicable. Label it as A, B.....

(5) Calculate the correlation coefficient.

(6) Interpret the correlation coefficient.

