

Exercise 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.

