

SECTION A**QUESTION 1**

A study is done with twelve employees in a company to understand the relationship between the number of rest days given in a year and the productivity of each employee.

The results are shown in the table below:

Rest days given	5	2	9	1	3	12	10	4	4	5	8	6
Productivity of the employee	0,87	0,65	0,9	0,58	0,7	0,91	0,88	0,78	0,72	0,91	0,82	0,62

(a) Calculate the correlation coefficient. (Round off correct to four decimal places.)

(2)

(b) Refer to your correlation coefficient and circle the letter that best describes the relationship. Only one letter must be circled.

- A Fairly strong, negative correlation
- B Very weak, positive correlation
- C Fairly strong, positive correlation
- D Perfect, positive correlation

(1)

(c) If the equation of the least squares regression line is $y = A + Bx$, calculate the values of A and B. Give answers correct to four decimal places.

(2)

(d) Should the regression line in (c) be used to predict the productivity of an employee if thirty rest days were given to the employee in a year? (Explain your answer.)

(2)

[7]

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N Nodding

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Self-directed

Learning Oriented Assessments in the Asia-Pacific Magdalena Mo Ching Mok,2012-10-08 The Asia Pacific region needs to maximize the benefits of education to enable it to compete in an economic future dominated by innovation in which assessing student progress must be an empowering rather than delimiting factor This detailed exposition of the theoretical basis and application tools of self directed learning oriented assessment SLOA reflects the very latest research championed by the Assessment Research Centre at The Hong Kong Institute of Education Featuring a range of relevant case studies it explores the varied theoretical issues related to SLOA and offers an integrated view of the system fully in line with the constructivist paradigm of learning which advocates formative rather than summative assessment Many of the initiatives outlined here are firsts in the region SLOA is already being applied in many schools with links to the ARC It is an approach to assessment that acknowledges the centrality of self directed learning and which positions assessment as a tool to enable and enhance self directed learning It draws on several theories of learning and assessment including the constructivist notion that learning is best achieved when students take ownership of their educational process setting their own goals and monitoring their own progress towards those goals SLOA has been the research and service approach of the ARC since 2005 In the intervening years the centre has developed a number of tools to facilitate SLOA learning and assessment including vertical ability scales teacher friendly computer software and packages for self directed learning

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