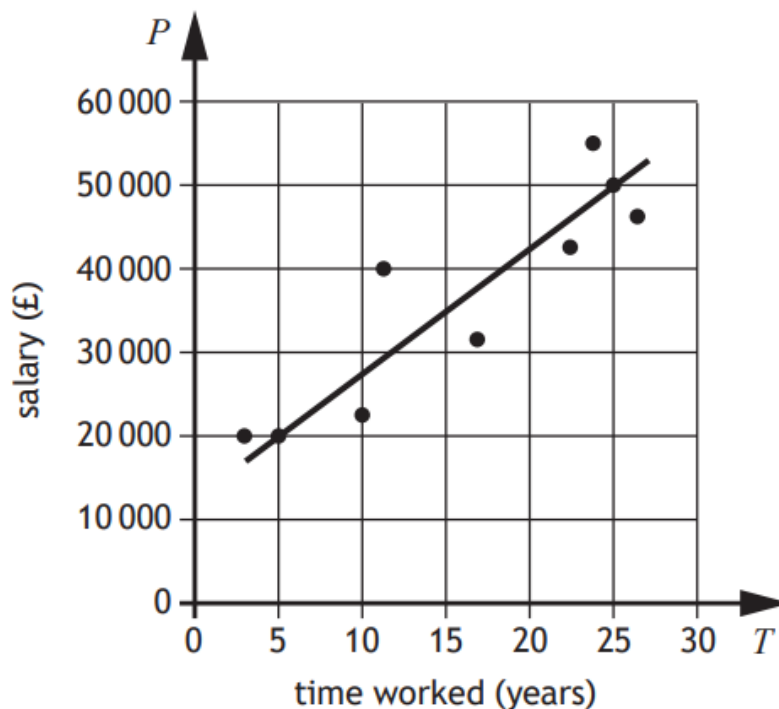


National 5 Maths  
SQA 2023 Paper 1  
Question 7

A business recorded the salaries of a sample of its employees and the length of time they have worked for the business.

The scattergraph shows the relationship between their salary,  $P$  pounds, and the length of time,  $T$  years, they have worked.



A line of the best fit has been drawn.

(a) Find the equation of the line of best fit in terms of  $P$  and  $T$ .

Give the equation in its simplest form.

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(b) Use your equation from part (a) to estimate the salary of an employee who has worked for the business for 8 years.

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Answers:

(a)  $P = 1500T + 12500$

(b) £24 500