

# Multi Mark 9

1.

You will be assessed on the quality of your written communication in this question.

Tom is making a patio using paving slabs like the one shown below.  
Each paving slab is in the shape of a trapezium.

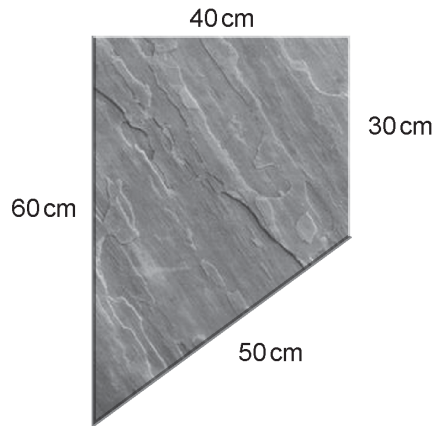


Diagram not drawn to scale

Tom used 25 of these paving slabs to make his patio.  
He decides to paint the patio with a sealant to prevent staining.  
Each tin of sealant that he buys covers an area of  $0.8\text{m}^2$ .

Each tin of sealant costs £14.49.  
Each paving slab costs £8.25.

Tom buys just enough tins of sealant to paint his patio.  
Calculate the total cost of buying the paving slabs and sealant.  
You must show all your working.

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2.

*You will be assessed on the quality of your written communication in this question.*

A person's Taxable Income is calculated as follows.

$$\text{Taxable Income} = \text{Gross Income} - \text{Pension Contribution} - \text{Other Allowances}$$

Rafael has a Gross Income of £57 500 and pays a Pension Contribution of £5175.  
His Other Allowances total £7475.

Rafael pays tax at the rate of 20% on the first £35 000 of his Taxable Income, and at a rate of 40% on the rest of his Taxable Income.

Calculate the total amount of tax that Rafael pays.

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