Multi Mark 7

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

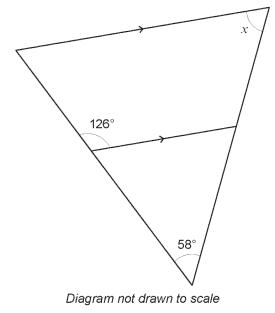
Pedro has just moved to live on an island in Europe. There is a choice of two different water companies.

Manana Water	Channel Water
No Standing Charge	Standing Charge: €30 every 3 months
Pay €0.06 per m³ of water used	€0.02 per m ³ of water used
	Special offer: 20% off your first bill
Pedro estimates that he uses 700 m ³ of water every three months. He wants to spend as little as possible on water. Which company should Pedro buy his water from? You must justify your answer by showing all possible costs.	
	[9

2.

1.

(a) You will be assessed on the quality of your written communication in this part of the question.



Calculate the size of angle <i>x</i> . You must show all your working and e	explain each step of your answer. [5]

(b) The tile shown is a rhombus.

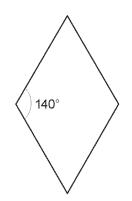


Diagram not drawn to scale

Explain why tiles identical to the one shown tessellate. You must give reasons for your answer.

[3]