

m2 = 8 days to go!

14

Northern Gas

Standing charge is 9.71 pence per day

Gas costs 4.27 pence per unit

Colin's gas meter was read on 1st September. The reading was

1	4	3	7	9
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The meter was read again on 1st December. The reading was

2	2	1	9	9
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(a) Complete the box to show the number of units used.

	7	8	2	0
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[1]

(b) Calculate the total gas bill that Colin will have to pay for the 91 days from 1st September, after VAT is charged at 5% on the total.

$$\begin{array}{r} 91 \text{ days at } 9.71 \text{ p each day} \\ \text{standing charge } 883.61 \text{ p} \\ \hline \text{units } 7820 \times 4.27 \quad 33391.4 \text{ p} \\ \hline \end{array}$$

$$\text{Total } 34275.01 \text{ p}$$

$$= \text{£ } 342.75$$

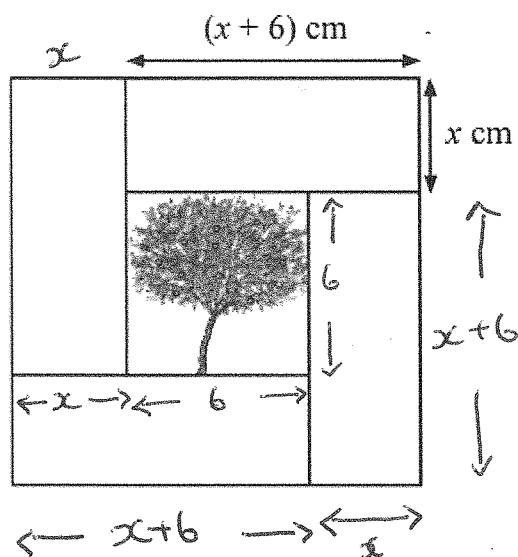
$$\text{Answer £ } 359.89 \quad [4]$$

But VAT is 5%

$$5\% \text{ is } \text{£ } 17.14$$

- 9 Four identical rectangular tiles surround a picture as shown in the diagram to form a frame.

The sides of the rectangular tile are x cm and $(x + 6)$ cm.



- (a) Find a formula for the perimeter P of the frame in its simplest form.

$$4x + 4(x + 6)$$

$$4x + 4x + 24$$

Answer $P = 8x + 24$ [2]

- (b) What is the area of the picture?

Area is 6×6

Answer 36 cm² [2]

Write 0.00733 correct to 2 significant figures.

The 1st sig. fig is the first non-zero

Answer 0.0073 [1]