

GCSE - Numeracy and Mathematics	Tier: Intermediate	Grade:
Topic: Bills		D/C

Starter 1) 5% of £135 = 2) 7.5% of £185.50 = 3) Write the following in £ to the nearest penny (2 decimal places) a) 18070p = £ b) 23051.8p = £	Top Tips! <ul style="list-style-type: none"> The difference between meter readings show how much gas/electricity has been used during the period Standing/service charge are added to cover extra costs People sometimes pay by direct debit and this shows up as credit (cr). If you owe money, this is called debit (dr) and must be added to the bill.
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Skills: <table border="1"> <tr> <td>Present meter reading</td> <td>8700</td> </tr> <tr> <td>Previous meter reading</td> <td>7250</td> </tr> <tr> <td>Charge per unit</td> <td>3p per unit</td> </tr> <tr> <td>Service charge</td> <td>£12</td> </tr> <tr> <td>VAT</td> <td>5%</td> </tr> </table> Step 1 (units used): Step 2 (cost of the units): Step 3 (total before VAT): Step 4 (VAT): Step 5 (Total with VAT):	Present meter reading	8700	Previous meter reading	7250	Charge per unit	3p per unit	Service charge	£12	VAT	5%	Examination Question: 2015 November Linear P1 Higher Qu 4 <i>You will be assessed on the quality of your written communication in this question.</i> The cost of buying electricity from North Electricity is as follows: <ul style="list-style-type: none"> Standing charge 28p per day Energy charge 14p per kWh used VAT 5% payable on total charges Evan uses 850 kWh of electricity during a period of 90 days. Calculate Evan's total bill for buying electricity from North Electricity. [9]
Present meter reading	8700										
Previous meter reading	7250										
Charge per unit	3p per unit										
Service charge	£12										
VAT	5%										

Assessment for Learning	Video / QR code
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GCSE - Numeracy and Mathematics

Topic: Bills

Tier: Intermediate

Grade:

D/C

Starter

1) 5% of £135 = **£6.75**

2) 7.5% of £185.50 = **£13.91**

3) Write the following in £ to the nearest penny (2 decimal places)

a) 18070p = **£180.70**

b) 23051.8p = **£230.52**

Top Tips!

- The difference between meter readings show how much gas/electricity has been used during the period
- Standing/service charge are added to cover extra costs
- People sometimes pay by direct debit and this shows up as credit (**cr**). If you owe money, this is called debit (**dr**) and must be added to the bill.

Skills:

Present meter reading	8700
Previous meter reading	7250
Charge per unit	3p per unit
Service charge	£12
VAT	5%

Step 1 (units used):

8700 – 7250 = 1450

Step 2 (cost of the units):

1450 x 0.03 = £43.50

Step 3 (total before VAT):

£43.50 + £12 = £55.50

Step 4 (VAT):

5% of £55.50 = £2.78

Step 5 (Total with VAT):

£55.50 + £2.78 = £58.28

Examination Question:

2015 November Linear P1 Higher Qu 4

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

The cost of buying electricity from North Electricity is as follows:

- Standing charge 28p per day
- Energy charge 14p per kWh used
- VAT 5% payable on total charges

Evan uses 850 kWh of electricity during a period of 90 days.

Calculate Evan's total bill for buying electricity from North Electricity. [9]

Standing charge: $0.28 \times 90 = £25.20$

Electricity cost: $0.14 \times 850 = £119$

Total (before VAT): $£25.20 + £119 = £144.20$

VAT: 5% of £144.20 = £7.21

Total: $£144.20 + £7.21 = £151.41$

Assessment for Learning

Video / QR code

