

Outcome 2 - Utility Bills

Bronze examples

Examples...

Scottish Energy
Energy Tariff = £18
Cost per unit = 12.7p

How much for 400 units of electricity?

$$400 \times 0.127 + 18 = \text{£}68.80$$

How much for 90 minutes and 120 texts?

O4 Mobile Tariff
Calls = 27p per min
Texts = 8p each

$$90 \times 0.27 + 120 \times 0.08 = \text{£}33.90$$

Silver examples

Examples...

Scottish Energy
Previous Reading = 06789
Current Reading = 06951
Cost per unit = 18.3p
Total :- £29.65

O4 Mobile Tariff
£35 a month
250 mins
unlimited texts
(then 18p per min)
Minutes used = 350
Total :- £53

06951 - 06789 = 162 units
162 × 0.183 = £29.65

350 - 250 = 100mins
100 × 0.18 = £18
Total = 18 + 35 = £53

Gold examples

Examples...

Scottish Energy
Previous Reading = 09342
Current Reading = 09896
Units used = 554
Cost per unit = 13.7p
Sub Total = £75.90
VAT (6%) = £4.55
Total = £80.45

O4 Mobile Tariff
£20 a month
150 mins
unlimited texts
250 mb data
(then 12p per min and £2 per mb)
Minutes used = 400
Data used = 258 mb
Total :- £66

Bronze Questions

Calculate the bills for the following...

Scottish Energy
Energy Tariff = £16
Cost per unit = 13.5p

- 100 units of electricity
- 345 units of electricity
- 300 units of gas
- 569 units of gas

Northern Gas
Gas Tariff = £14
Cost per unit = 18.7p

- 7 megabytes
- 32 megabytes

Simply Broadband
Line Rental = £9
£2 per megabyte

- 80 minutes of calls
- 350 minutes of calls

Total Call Landlines
Line Rental = £15
Calls = 4p per minute

- 50 minutes, 60 texts
- 250 minutes, 350 texts

O4 Mobile Tariff
Calls = 21p per min
Texts = 13p each

Silver Questions

Scottish Energy
Cost per unit = 14.8p

- Previous Reading = 06734
Current Reading = 06894
Total Electricity = £ ?
- Previous Reading = 05367
Current Reading = 05956
Total Electricity = £ ?

Northern Gas
Cost per unit = 24.8p

- Previous Reading = 08218
Current Reading = 08563
Total Gas = £ ?
- Previous Reading = 07845
Current Reading = 07927
Total Gas = £ ?

O4 Mobile Tariff
£15 a month
100 mins
(then 11p per min)

- Minutes Used = 150
Total Mobile = £ ?
- Minutes Used = 234
Total = £ ?
- Minutes Used = 300
Total Mobile = £ ?
- Minutes Used = 445
Total Mobile = £ ?

Gold Questions

Scottish Energy
Cost per unit = 16.9p

For each electricity bill calculate

- Previous Reading = 04238
Current Reading = 04587
- Previous Reading = 09698
Current Reading = 09853
- Previous Reading = 07124
Current Reading = 07435
- Previous Reading = 07985
Current Reading = 08023

Northern Gas
Cost per unit = 22.6p

For each gas bill calculate

- Previous Reading = 09765
Current Reading = 09967
- Previous Reading = 05289
Current Reading = 05643
- Previous Reading = 07218
Current Reading = 07632
- Previous Reading = 05176
Current Reading = 05423

O4 Mobile Tariff
£30 a month 300 mins
unlimited texts 500 mb data
(then 15p per min and £3 per mb)

- Mins used = 350
Data used = 502
Total = ?
- Mins used = 450
Data used = 509
Total = ?

Bronze Answers

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|-----------|------------|
| 1. £29.50 | 2. £62.58 |
| 3. £70.10 | 4. £120.40 |
| 5. £23 | 6. £73 |
| 7. £18.20 | 8. £29 |
| 9. £18.30 | 10. £98 |

Silver Answers

- | | |
|-----------|------------|
| 1. £23.68 | 2. £87.17 |
| 3. £46.03 | 4. £86.06 |
| 5. £85.56 | 6. £20.34 |
| 7. £20.50 | 8. £29.74 |
| 9. £37 | 10. £52.95 |

Gold Answers

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|-----------|------------|
| 1. £62.52 | 2. £27.77 |
| 3. £55.71 | 4. £6.81 |
| 5. £48.39 | 6. £84.80 |
| 7. £99.17 | 8. £59.17 |
| 9. £43.50 | 10. £79.50 |