Bishops Online Tutoring

Education Consultancy

Edexcel GCSE Mathematics
UTILITY BILLS

Materials Required:
- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
- Protractor
- Compass

Instructions:
- Use a black ink pen to answer all questions
- Fill your name in the section below
- Answer the questions in the spaces provided
- Show your working out for all answers

Information:
- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Advice:
- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

NAME:

1. Mr Johnson works out the cost of the gas he used last year.
At the start of the year, the gas meter reading was 8569 units.
At the end of the year, the gas meter reading was 9872 units.

Each unit of gas he used cost 44p.

Work out the **total** cost of the gas he used last year.

£ ……………………………

(Total 4 marks)

2.

Mr Holland uses 367 units of electricity in one month.
He pays 5.84p for each unit of electricity.
Mr Holland also pays a fixed charge of £6.14 for the month.

Work out the **total amount** he pays.

£ ……………………………

(Total 4 marks)

3.

Here are two readings from a gas meter.

0	1	9	6	2

January

0	2	1	5	9

April

The difference in the meter readings gives the number of units of gas used.
The cost of gas is 21p for each unit of gas used.

Work out the cost of gas used.
Give your answer in pounds (£).

£ …………………

(Total 4 marks)

4.

Alison travels by car to her meetings.

Alison's company pays her 32p for each mile she travels.

One day Alison writes down the distance readings from her car.

Start of the day: 2430 miles
End of the day: 2658 miles

Work out how much the company pays Alison for her day's travel.

£……………………

(Total 4 marks)

5.

Peter works out the cost of the gas he used last year.
At the start of the year, the gas meter reading was 12967 units.
At the end of the year, the gas meter reading was 14059 units.

Each unit of gas he used cost 44p.

Work out the cost of the gas he used last year.

£ ……………………………

(Total 4 marks)

*6. Here is part of Gary's electricity bill.

Electricity Bill	
New reading	7155 units
Old reading	7095 units
Price per unit = 15p	

Work out how much Gary has to pay for the units of electricity he used.

(Total 4 marks)

7. Mr Shah is working out the cost of the electricity he used in April.

Electricity Meter Readings

1 April   79721
30 April   80305

Mr Shah has to pay

21.3p for each of the first 70 units used in April **and** 10.2p for each of all the other units used in April.

Work out the total cost of the electricity he used in April.

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(Total 4 marks)