# WJEC 2014 Online Exam Review

## GCSE Applications of Mathematics Unit 2 Foundation 4362-01

**All Candidates' performance across questions**

| Question Title | N | Mean | S D | Max Mark | F F | Attempt % |
|---|---|---|---|---|---|---|
| 1 | 532 | 5.2 | 1 | 6 | 86 | 98.9 |
| 2 | 515 | 6.3 | 3 | 9 | 70.5 | 95.7 |
| 3 | 518 | 2 | 1.4 | 4 | 49.4 | 96.3 |
| 4 | 535 | 2.7 | 1.6 | 5 | 53.9 | 99.4 |
| 5 | 476 | 2.6 | 1.8 | 4 | 64.6 | 88.5 |
| 6 | 515 | 2.4 | 1.1 | 4 | 60.3 | 95.7 |
| 7 | 531 | 4.3 | 1.9 | 7 | 61.6 | 98.7 |
| 8 | 537 | 4.4 | 2 | 7 | 62.6 | 99.8 |
| 9 | 533 | 3.5 | 0.8 | 4 | 86.3 | 99.1 |
| 10 | 478 | 2.4 | 2 | 6 | 39.5 | 88.8 |
| 11 | 527 | 4.2 | 2.1 | 7 | 60.3 | 98 |
| 12 | 528 | 2.9 | 2.6 | 9 | 31.7 | 98.1 |
| 13 | 435 | 2.8 | 2.2 | 8 | 35 | 80.9 |

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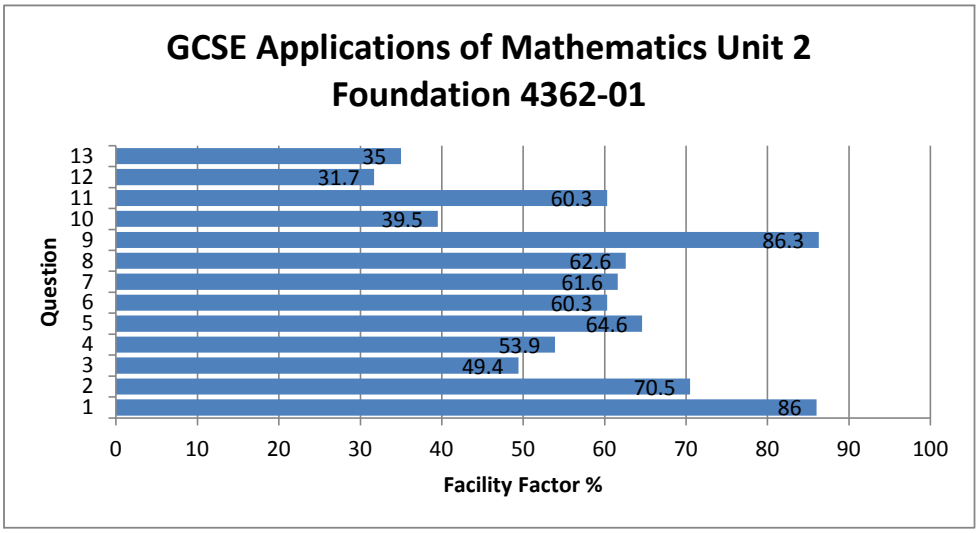

Examiner only

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

A fashion store buys 200 bracelets for £6.30 each.
The store sells 60% of the bracelets for £9.99 each.
The remaining bracelets are later sold at a reduced price of £3.98 each.
How much profit or loss did the fashion store make?
You must show all your working. [9]

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If the fashion store buys 200 bracelets for £6.30 each that would cost £1260.
So the 60% of the bracelets are sold for £9.99 each that would come to £1198.80
If you take 60% away from 200 which would 200-120=80 So if we multiply 80x the amount the bracelets were reduced too £3.98 which would make £318.40
So if we add the 1260.00
+ 318.40
157840
If we take 1578.40
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So the fashion shop has a profit of £318.40

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200 x 6.30 (÷100) = 12.60 12.60 x 60 = £756

200 x 9.99 (=1998 ÷100 (=) 9.98 x 60 = 1198.8

The fashion store made a profit of 1198.80 - 756 = 442.80

The fashion store gain/made a profit of £442.8.

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Examiner only

**3.**

The above picture shows a car outside a house.

Write down an **estimate** for the **actual height** of the car .....

Write down an **estimate** for the **actual height** of the house.
You must show all your working. [4]

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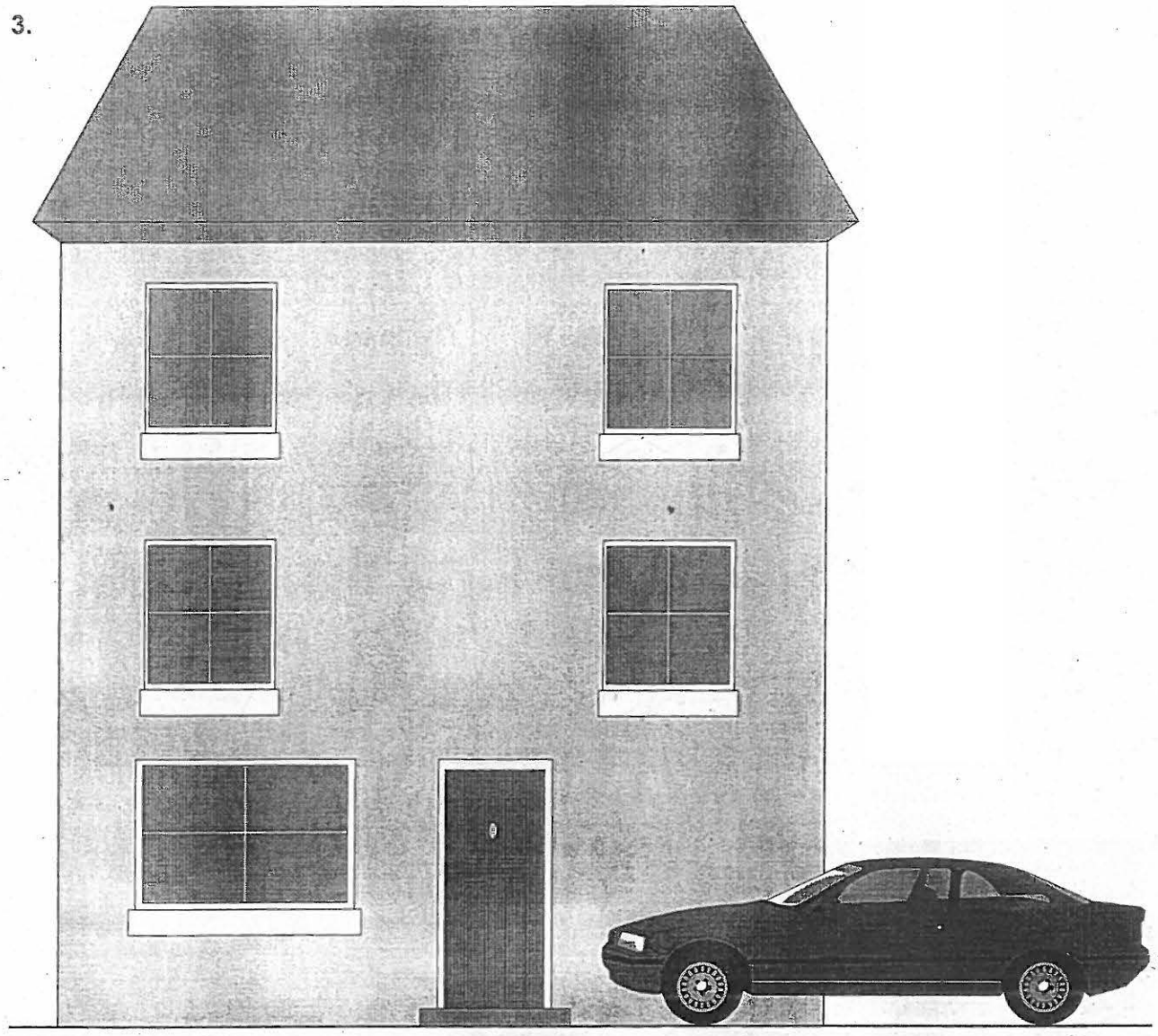
Examiner only

3.



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~~hou~~ 1 ~~care~~ 1 car = 2cm

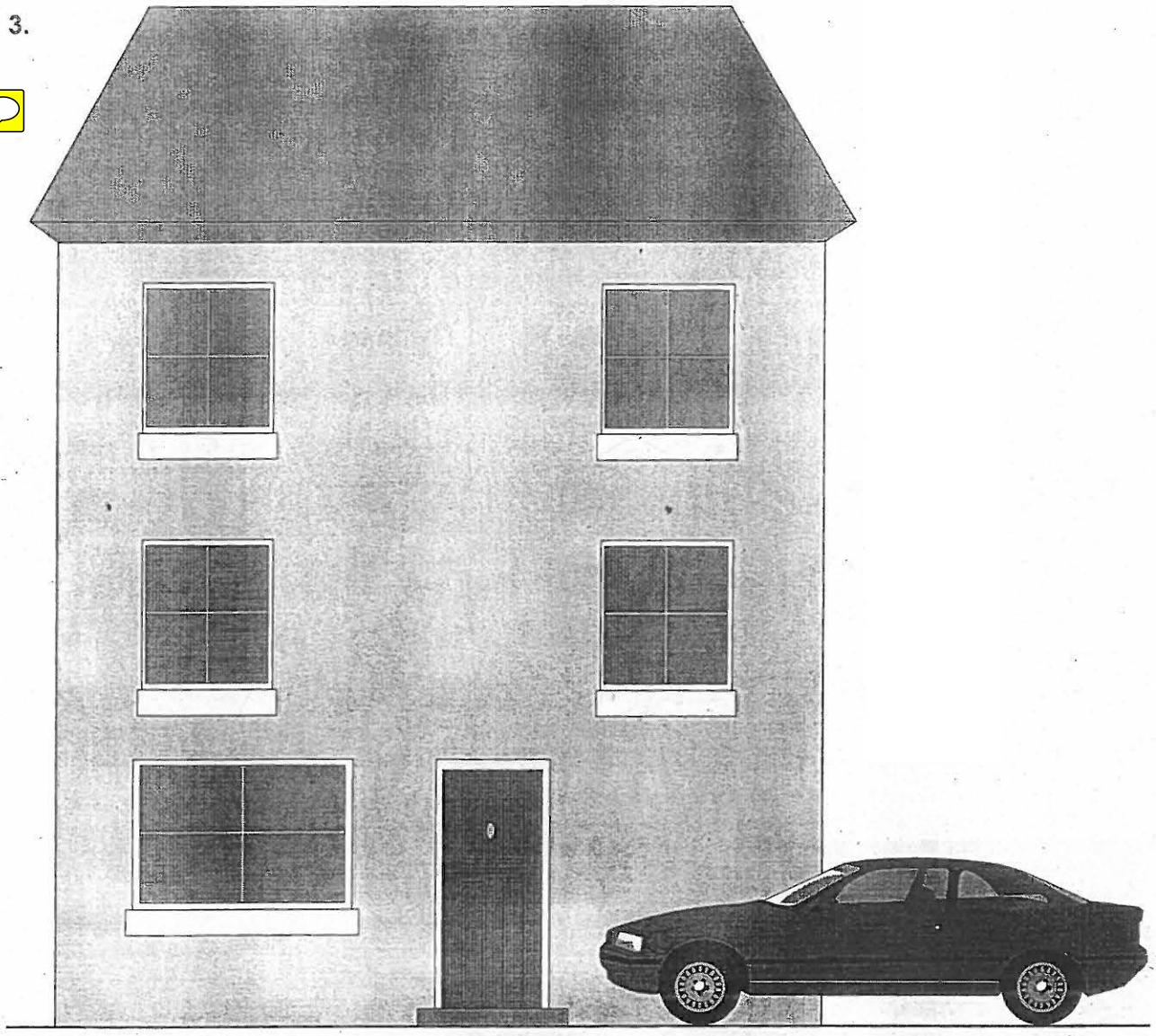
house = 15cm

1·5m x 7m = 10.5

house height = 10.5 meters

Examiner only

3.



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height of the house is 15cm.

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Examiner only

*(b)* (i) Before going on holiday, Jessie changed £800 into Canadian dollars ($).
The exchange rate was £1 = $1.59.
How many dollars did she receive? [2]

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(ii) Whilst on holiday she paid $456 for a lift pass to go snowboarding.
Use the same exchange rate to calculate the value of the lift pass in pounds.
Give your answer to the nearest pound. [3]

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**Turn over.**

Examiner only

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800 x 1.59

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$546 ÷ $1.59 = 343.
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Examiner only

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Examiner only

**10.** The company *Watts Up Power Co* supplies electricity to Mr Davies.

The company charges 24.7 pence per unit of electricity used and 31 pence per day.

Mr Davies' electricity meter readings at the beginning and at the end of a 92 day period were 13488 and 14399 respectively.

Calculate how much the company charges Mr Davies in total for the 92 day period.
Give your answer correct to the nearest penny.

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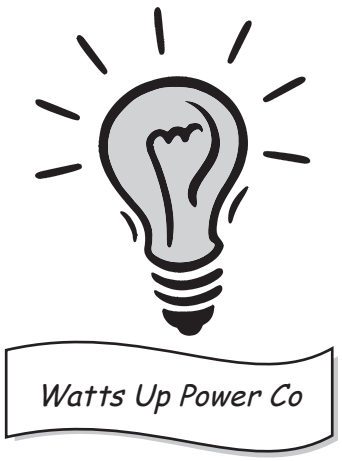

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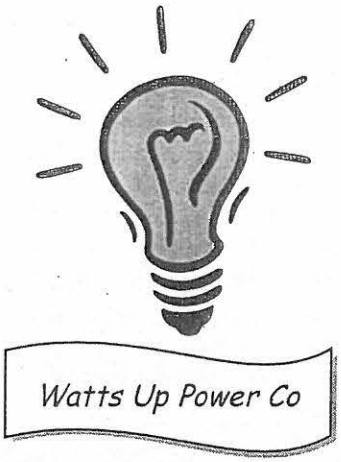


24·7 pence per unit

31 pence per day.

David starts with 13488 and ends with 14399.

92 days ÷ 31 = £2·96.

13488 - 14399 = 911 units.

911 ÷ 24·7 = £36·8 per unit

£2·96 + £36·8 = £39·76.

Mr Davies had to pay £39·76 for his use of electricity.

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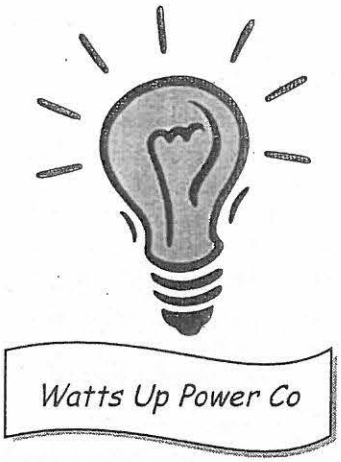


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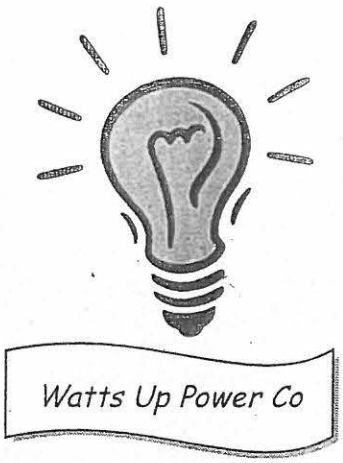


13488 ÷ 100 = 134.88

13488 + 14399 = 27887

27887 ÷ 100 = 278.87

24.7 x 278.87 = 6888.08 for

6888.08 for electricity

31 x 92 = 2852 for 92 days

6888.08 + 2852 = £9740.08

Cost for over the 92 days is £9740.08

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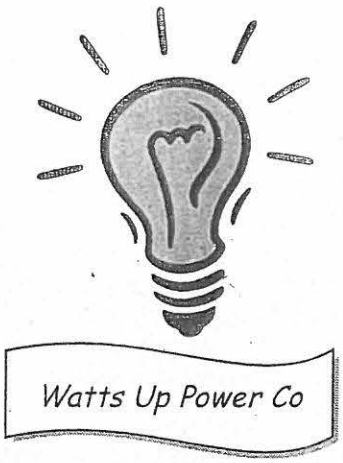


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