

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

09865

TASK AND ANSWER BOOKLET

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS

Fill in all the boxes below. Make sure your personal details are entered correctly. Use **BLOCK LETTERS**.

Your surname or family name

Your first forename (if any)

Your second forename (if any)

Date of birth

Centre name

Centre number

Your OCR candidate number

At the beginning of this booklet you will find tear off Resource Documents. You will need to refer to these documents to complete the tasks.

You will also need:

- a pen with black ink
- a calculator
- a ruler

YOU HAVE 1 HOUR AND 30 MINUTES TO COMPLETE THE THREE TASKS

For each task, make sure that you:

- read the questions carefully before starting
- write your answers in this booklet
- clearly show how your working leads to your answers

2 marks are available in each task when you show you have checked your work.

When you have finished, hand this booklet and all the Resource Documents to the supervisor.

Ofqual Qualification Reference Number: 500/8910/9

FOR EXAMINER USE ONLY		
Question No	Mark	Total
TASK A		
Q1	/1	
Q2	/3	
Q3	/3	
Q4	/4	
Q5	/7	
Checking	/2	/20
TASK B		
Q6	/3	
Q7	/3	
Q8	/8	
Q9	/4	
Checking	/2	/20
TASK C		
Q10	/4	
Q11	/6	
Q12	/4	
Q13	/4	
Checking	/2	/20
Total	/60	

This document consists of 24 pages. Any blank pages are indicated.

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

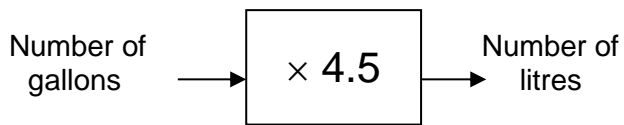
TASK A – HAPPY HOUR

RESOURCE DOCUMENT 1

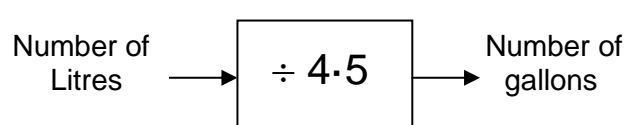
Diesel price for 1 litre



Change gallons to litres.



Change litres to gallons.



Manufacturer's figures for the diesel Sedan

Type of driving	Number of miles driven on one gallon	Number of litres to drive 100 kilometres
Around town (urban)	45	6.3
Motorways and main roads (extra urban)	67.5	4.2
Combined	54	5.2

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK B – LOFT INSULATION

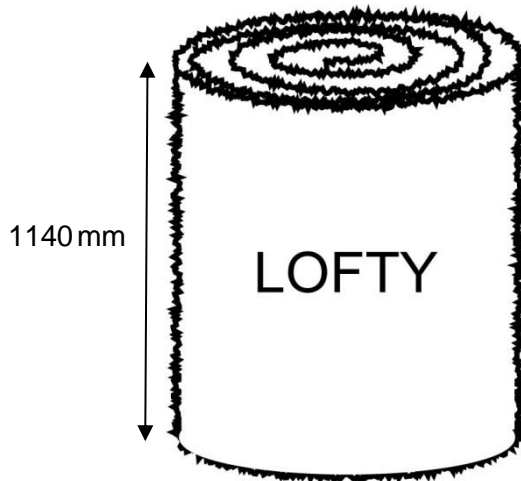
RESOURCE DOCUMENT 1

- Loft insulation can be laid flat with its edges touching
- Loft insulation can be cut with scissors
- The full depth of loft insulation can be built up in layers



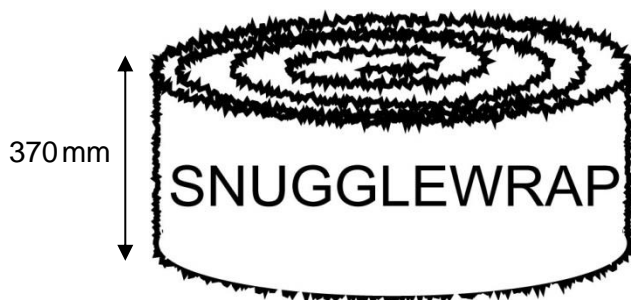
Details of Hi-Loft Roll

370 mm wide
4 m long
200 mm thick
£9.98 per roll



Details of Lofty Roll

1140 mm wide
4 m long
100 mm thick
£6.00 per roll



Details of Snuggwrap Roll

370 mm wide
5.3 m long
160 mm thick
£7.50 per roll

Note:

1000 m	=	1 km
100 cm	=	1 m
10 mm	=	1 cm

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK C – HOLIDAY MONEY

RESOURCE DOCUMENT 1

CAFÉ MATTERHORN MENU	
	PRICE (CHF)
DRINKS	
BEER	3.80
COFFEE	2.80
COFFEE WITH MILK	3.80
HOT CHOCOLATE	4.20
APPLE JUICE	3.80
FOOD	
APPLE STRUDEL	7.30
PLUM TART	6.00
ROSTI	5.00
PIZZA	8.50



THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

RESOURCE DOCUMENTS

The Resource Documents on pages **3**, **5** and **7** contain information to help you to answer the tasks in this booklet.

- The resource documents are perforated along the left hand side, so they can be removed from the task and answer booklet.
- Your supervisor will instruct you when to remove the resource documents, before you start the assessment.
- Please fold pages **3**, **5** and **7** along the perforated strip before removing from the task and answer booklet.

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK AND ANSWER PAGES

Do not turn over this page until you are told to do so by your supervisor.

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK A – Happy Hour

You will need Task A Resource Document 1

Q1 Geoff drives a Sedan car that uses diesel.
How many miles can he drive his Sedan, around town, on one gallon of diesel?

(1 mark)

Examiner
use only
(Q1)

Q2 What is the cost of one **gallon** of diesel?

(3 marks)

Examiner
use only
(Q2)

Geoff drives 250 miles around town and uses half a tank of diesel.



Q3 About how many litres of diesel does the tank hold when full?
Explain your answer.

(3 marks)

Examiner
use only
(Q3)

A local garage has a “Happy Hour” between 12:00 and 13:00, when it sells fuel at “2p off” the price of **each complete** litre.
Geoff lives in the town and 5 km from the garage.

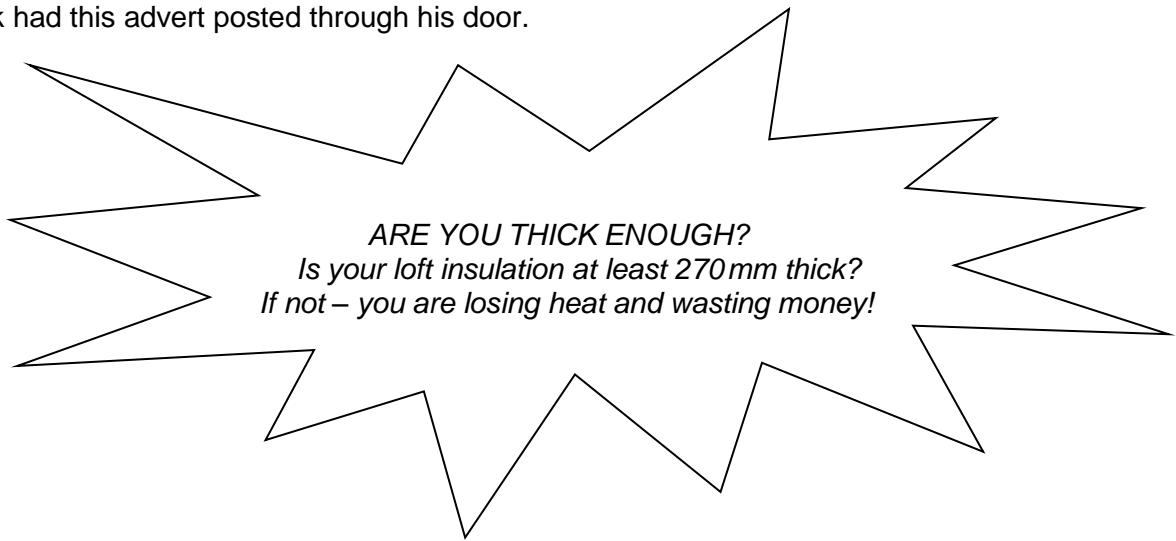
Q4 How many litres of diesel does Geoff use when he drives from home to the garage and back?

(4 marks)

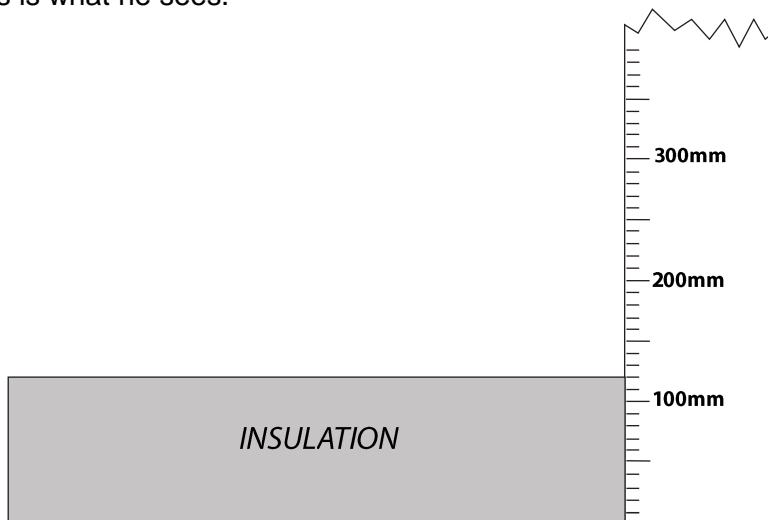
Examiner
use only
(Q4)

TASK B – Loft insulation**You will need Task B Resource Document 1**

Jack had this advert posted through his door.



Jack decides to investigate his loft and measure the existing insulation.
 This is what he sees.



Q6 (a) How thick does the ruler show Jack's loft insulation is?

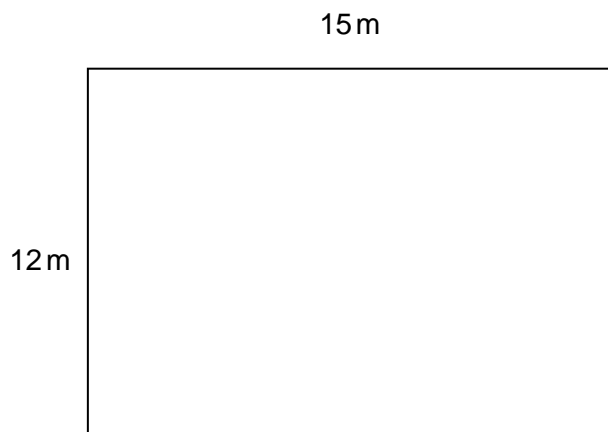
(1 mark)

(b) Why should Jack add extra insulation to his loft? Give a reason for your answer.

(2 marks)

Examiner
use only
(Q6)

Jack measures his loft and draws this sketch.

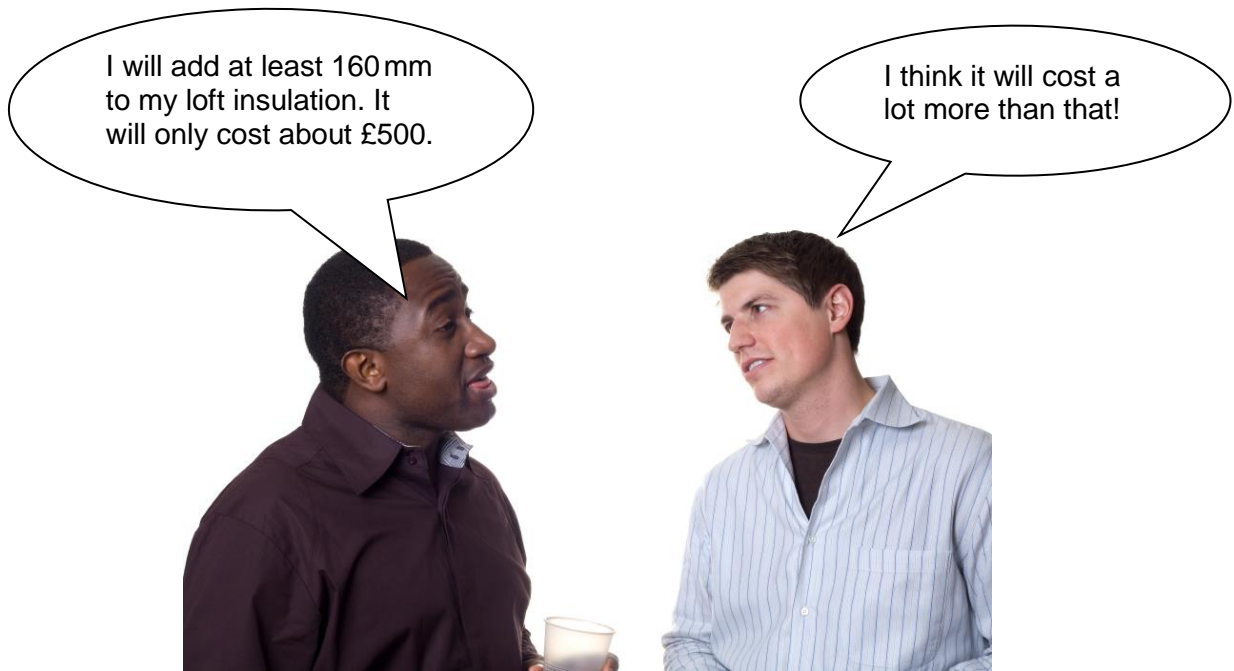


Q7 What is the area of Jack's loft?
Give the units of your answer.

(3 marks)

Examiner
use only
(Q7)

Jack decides to lay some extra insulation in his loft and talks to his friend Phil.



Jack looks on the internet to find out the price of insulation.

Q8 (a) Show that Jack's extra insulation will cost about £690 if he chooses Snugglewrap.

(5 marks)

- (b) Jack does not want to pay this much for his extra insulation.
Explain whether using Hi-Loft or Lofty will give him a better deal.

(3 marks)

Examiner
use only
(Q8)

Jack insulates his loft and in the next year he saves £170 on his heating bill.

- Q9** After how many years will Jack's savings on his heating bill cover the cost of the extra insulation?

Explain your answer.

(4 marks)

Examiner
use only
(Q9)

Question 9 plus 2 Checking marks

Examiner
use only
(Checking)

Total marks

Examiner
use only
(Total)

END OF TASK B

TASK C – HOLIDAY MONEY**You will need Task C Resource Document 1**

Paul is on holiday in Switzerland where the money used is Swiss francs (CHF).

Paul has changed £100 into 155 CHF.

Q10 (a) How many Swiss francs (CHF) did he get for each £1?

(2 marks)

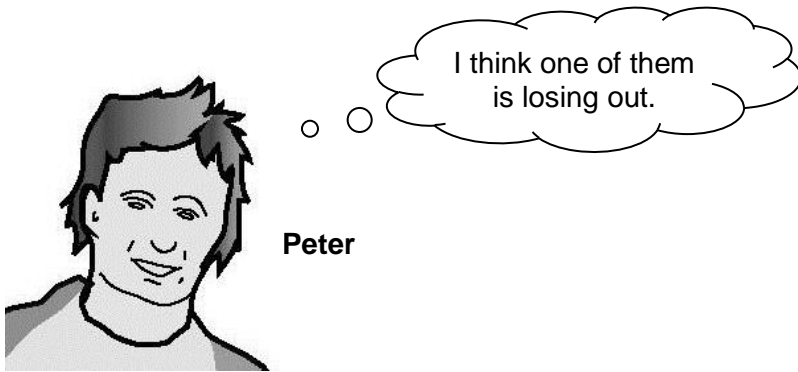
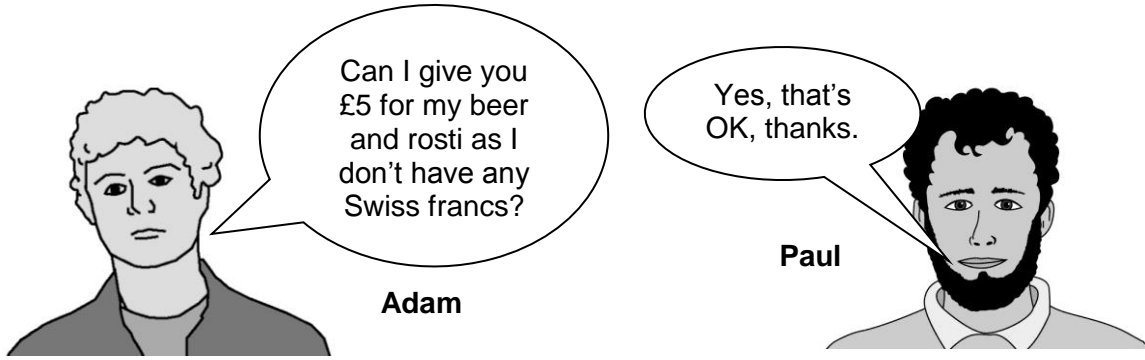
Paul and his friends look at a menu in a café.

(b) What is the range of prices on the menu?

(2 marks)

Examiner
use only
(Q10)

Adam wants to give Paul £5.



Q12 Show who is losing out.

(4 marks)

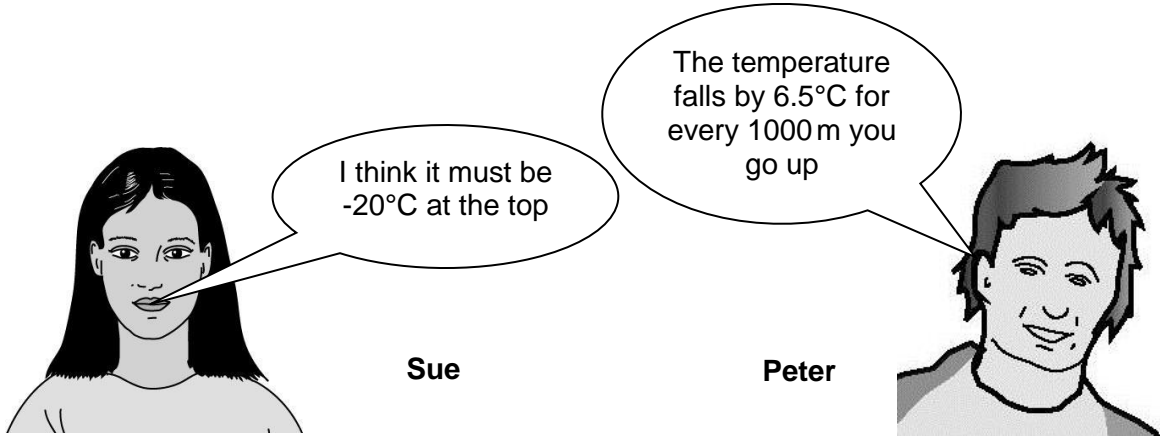
Examiner
use only
(Q12)

The top of the mountain is 4478m above sea level and covered in snow.

The café is 3089m above sea level.

A thermometer shows that it is 6°C outside the cafe.

Sue wonders what the temperature is on top of the mountain.



Q13 Explain why Sue is wrong.

(4 marks)

Examiner use only (Q13)

Question 13 plus 2 Checking marks

Examiner use only (Checking)

Total marks

Examiner use only (Total)

END OF TASK C

OCR

Oxford Cambridge and RSA

Copyright Information:

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee

Registered in England

Registered Office: 1 Hills Road, Cambridge, CB1 2EU

Registered Company Number: 3484466

OCR is an exempt Charity

© OCR 2013

MA09/JAN13/SAMS