

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

09865

TASK AND ANSWER BOOKLET

This assessment may be taken within these dates:
28 FEBRUARY – 4 MARCH 2011

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

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

--	--	--	--	--	--	--	--	--

YOU NEED

This Task and Answer Booklet

The Resource Booklet for this test

A pen with black ink

A calculator

A ruler

YOU HAVE 1 HOUR AND 30 MINUTES TO COMPLETE THE 3 TASKS.

Read the tasks inside this booklet carefully before starting the tasks

Write your answers in this booklet

For each task, clearly show how your working leads to your answer

When you have finished, hand this booklet to the supervisor

Task 1 – Get me to the church on time

You must clearly show how your working leads to each answer.

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

You will need pages 2 and 3 of the Resource Booklet.

Peter who lives in London has been invited to a wedding in Nottingham.

He has a choice of which routes to take.

(a) (i) If Peter uses Route 1 what average speed can he expect to travel on the M1?

[1 mark]

(ii) If Peter uses Route 2 how many miles will he travel along the M42?

[1 mark]

[Turn over

(iii) How many miles will Peter drive, in total, from his home to the wedding if he uses Route 2?

[3 marks]

(b) How long would the journey on the A42 take Peter if he uses Route 2?

[3 marks]

Peter is going with Aaliyah to the wedding. They discuss the possible routes to take.

Aaliyah says that ‘Route 1 is clearly better’.

(c) Give two reasons to support Aaliyah’s opinion.

[2 marks]

Peter decides to use Route 1. The wedding is at 1 o’clock.

Peter knows that it takes:

10 minutes to travel the 2 miles from his house to the M25

15 minutes to travel the 5 miles from the M1 Junction 24, to the wedding venue

You will need pages 2, 3 and 4 of the Resource Booklet.

[Turn over

(d) Peter leaves home at 10.20am. Taking travel factors into account, calculate and explain whether this is a sensible leaving time. You must support your answer with evidence.

[8 marks]

Checking [2 marks]

Task 2 – Green Fingers

**You must clearly show how your working leads to each answer.
2 marks are available in each task when you show you have checked your work.**

You will need pages 5 and 6 of the Resource Booklet.

Bob rents an allotment.

(a) (i) What is the total area of Bob’s allotment?

[2 marks]

Part of the allotment is covered with weeds, the rest is ready for planting.

[Turn over

(ii) What area, in m^2 , is ready for planting?

[2 marks]

Bob clears the weeds. He will improve all the soil on his allotment by using manure.

Bob orders manure from a local farmer.

Bob says that '1 cubic metre of manure will improve 10 square metres of soil'.

(b) (i) How many cubic metres of manure does Bob need to improve all his soil?

[2 marks]

Richard's allotment is next to Bob's allotment.
He offers Bob the part of his allotment shown on the Resource Sheet.

Bob says 'I want to put a fence around the whole area with a 2 metre wide gate'.

Richard says 'You can get the fencing and the gate from Lander Fencing for just £243'.

You will need pages 5, 6, 7 and 8 of the Resource Booklet.

(b) (ii) Show that this cost is correct.

[6 marks]

[Turn over

Task 3 – Keep on Running

You must clearly show how your working leads to each answer.

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

Four friends, Jane, Ravinda, Sula and Emma run half marathons and 10-km races.

You will need pages 9 and 10 of the Resource Booklet.

(a) (i) Which of the four friends ran the slowest half marathon?

[1 mark]

(ii) What was her slowest time?

[1 mark]

[Turn over

Emma says ‘The average time for my half marathons is 1 hour 41.5 minutes and I have the lowest range of times’.

(b) (i) Is Emma right?

[4 marks]

You will need pages 9 and 10 of the Resource Booklet.

(ii) The four friends race against each other in another half marathon.

**Who is most likely to win?
Explain your reasoning.**

[4 marks]

[Turn over

[8 marks]

Checking [2 marks]

**Task 2, page 5 © *shoobydoooo*, iStockphoto,
www.istockphoto.com**

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

H588/MAR11