

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS**

**09865**

**TASK AND ANSWER BOOKLET PRACTICE PAPER 4**

**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
<b>TASK A</b>		
	/	<b>/20</b>
	/	
	/	
	/	
	/	
<b>TASK B</b>		
	/	<b>/20</b>
	/	
	/	
	/	
	/	
<b>TASK C</b>		
	/	<b>/20</b>
	/	
	/	
	/	
	/	
<b>Total</b>	<b>/60</b>	

**This document consists of 28 pages. Any blank pages are indicated.**

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

## RESOURCE DOCUMENTS

The Resource Documents on pages 5, 7, 9 and 11 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 5, 7, 9 and 11 along the perforated strip before removing from the task and answer booklet.

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

**TASK A – ORCHARD****RESOURCE DOCUMENT 1****Table of apple varieties with information and prices**

<b>Apple Variety</b>	<b>Picking time</b>	<b>Price per tree in £</b>
Beauty of Bath	Aug	11
Chiver's Delight	Oct	20
Cox's Orange Pippin	Oct	11
Discovery	Aug	12
Fiesta	Oct	11
George Cave	Aug	12
Jester	Oct	12
Jupiter	Oct	11
Katy	Sep	11
Lord Lambourne	Oct	11
Michaelmas Red	Oct	15
Rosemary Russet	Oct	15
Spartan	Sep	11
Sunset	Oct	11
Superb	Nov	11
Winston	Nov	11
Winter Gem	Nov	20

**Prices of extra planting items**

<b>Item</b>	<b>Price in £ of each for buying 1 to 4</b>	<b>Price in £ of each for buying 5 to 49</b>
Tree guard	0.90	0.82
Tree stake	2.10	1.90
Mulch mats	2.50	2.30

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

**TASK B – ON YOUR BIKE**  
**RESOURCE DOCUMENT 1**

This is part of John's training plan.

	<b>Number of miles each week</b>
<b>Week 1</b>	18
<b>Week 2</b>	23
<b>Week 3</b>	29
<b>Week 4</b>	35
<b>Week 5</b>	39
<b>Week 6</b>	42
<b>Week 7</b>	48
<b>Week 8</b>	55

These are the distances John cycled on the first four days he trained in **week 9**.

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
13 miles	10 miles	11 miles	15 miles	

Here are the times for John & Ryan in **week 10**

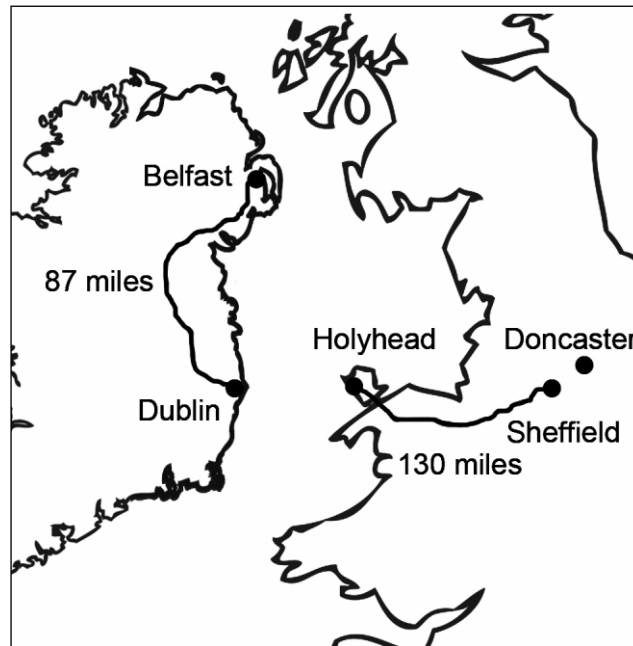
	<b>John</b>	<b>Ryan</b>
<b>Monday</b>	48 minutes	1 hour 6 minutes
<b>Tuesday</b>	1 hour 15 minutes	1 hour 14 minutes
<b>Wednesday</b>	1 hour 8 minutes	1 hour 13 minutes
<b>Thursday</b>	1 hour 23 minutes	1 hour 3 minutes
<b>Friday</b>	1 hour 11 minutes	49 minutes
<b>Saturday</b>	1 hour 9 minutes	1 hour 8 minutes

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**



## TASK C – HALF TERM TRIP

## RESOURCE DOCUMENT 1



## Speedy ferries

### Holyhead to Dublin Crossing Time: 2 hours

Ferries sail every day at 5am, 1pm and 9pm

Return fares

Adult	£46
Child	£28
Car	£126

### Holyhead to Belfast Crossing Time: 8 hours

Ferries sail every day at 3am, 9am and 8pm

Return fares

Adult	£56
Child	£38
Car	£146

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

## TASK C – HALF TERM TRIP

## Flyjet flights

### Doncaster to Belfast (City)

	Fri 22 Oct	Sat 23 Oct	Sun 24 Oct	Mon 25 Oct
<b>9am</b>	£27.99	£29.99	£19.99	£27.99
<b>2pm</b>	£43.99	£37.99	£15.99	£33.99

### Belfast (City) to Doncaster

	Fri 29 Oct	Sat 30 Oct	Sun 31 Oct	Mon 1 Nov
<b>11am</b>	£36.99	£28.99	£25.99	£47.99
<b>5pm</b>	£46.99	£38.99	£19.99	£39.99

All prices are the same for an adult or a child.

Wheels-2-go Car Hire

Belfast office

Rent a Citroen diesel car  
ONLY £132 a week

Fuel costs extra

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

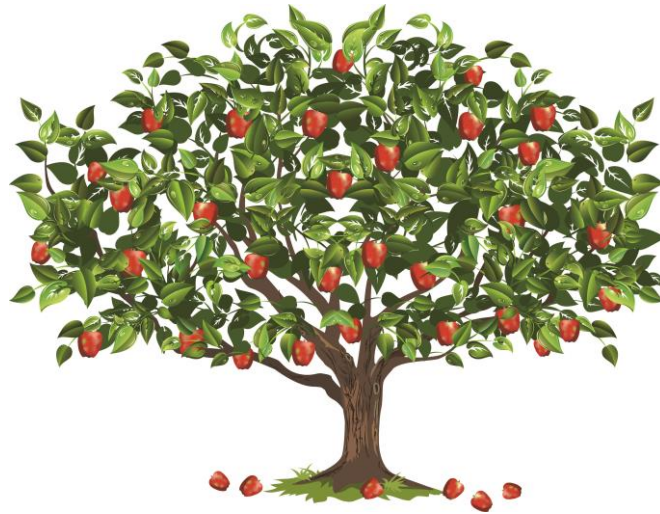
**TASK AND ANSWER PAGES**

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 – ORCHARD**

You will need Task A Resource Document 1



Jo wants to plant an orchard of apple trees and pear trees in her field.  
Jo has a price list for apple trees.

**Q1 (a) (i)** What is the most common price of an apple tree?

---

---

**(1 mark)**

**(ii)** When are most of the varieties of apple ready to pick?

---

---

**(1 mark)**

Jo buys 25 trees. She wants to plant 2 pear trees for every 3 apple trees.

**(b)** How many apple trees and how many pear trees should she buy?

---

---

---

---

---

---

---

**(3 marks)**

Jo decides to start by buying one of each type of apple tree on her list, except for the two most expensive trees. Jo thinks that the apple trees will cost her about £150.

**(c)** Explain whether Jo is right.

---

---

---

---

---

---

---

**(3 marks)**

All of Jo's 25 trees will each need a tree stake and a tree guard.

**(d)** Work out how much these will cost altogether.

---

---

---

---

---

---

---

---

---

---

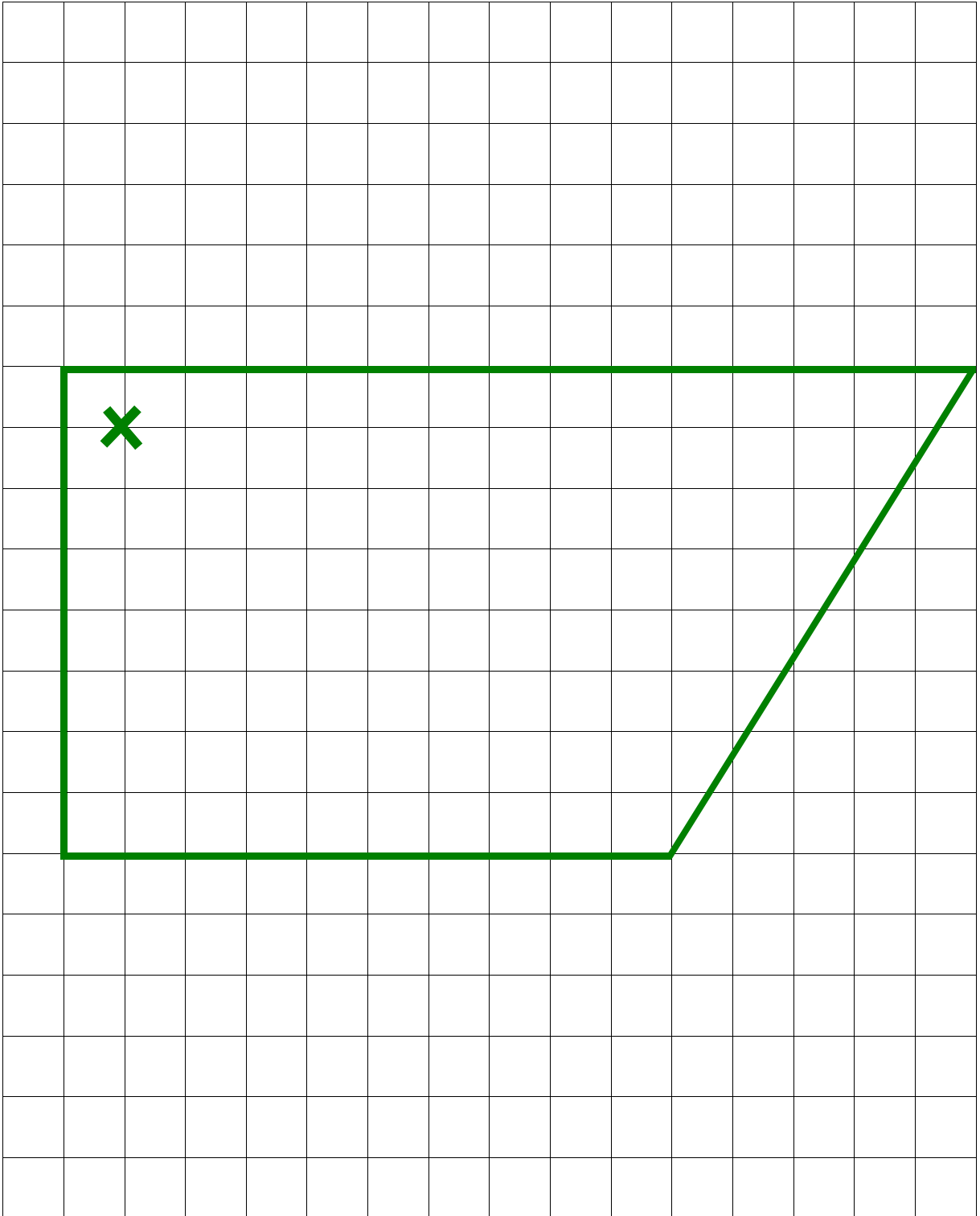
**(4 marks)**



Jo has a field where she wants to plant the trees.  
The field is drawn to scale, on the 1cm square grid below.

**Jo's field**

Scale 1 cm represents 1 m



Jo thinks that she can plant 25 trees in this field.

Trees must be planted: - at least 2 m apart in all directions  
- at least 1 m from the edge of the field.

- (e) Mark on the scale diagram where Jo should plant trees so that she can fit in as many as possible.

One tree is marked for you .

Can Jo plant all 25 trees in her field?

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**(6 marks)**

Examiner  
use only  
(Q1)

**Checking (2 marks)**

Examiner  
use only  
(Checking)

**Total marks**

Examiner  
use only  
(Total)

**END OF TASK A**

**TASK B – ON YOUR BIKE****You will need Task B Resource Document 1**

John is training for a charity bike race and he is using a training plan.

Each week, John's plan tells him the total number of miles he should be cycling.

John decides to train 5 days a week.

He **rides the same distance** each day of that week.

**Q2 (a)** How far should John be riding each day in week 4?

---

---

---

---

**(2 marks)**

**(b)** In week 7, John rides 9 miles each day. Has he reached his target for week 7?  
Show your working.

---

---

---

---

---

---

---

**(3 marks)**

In week 9, John decides to ride **different** distances each day for five days of the week.

He wants to cycle 12 miles, on average, each day.

- (c) How far would John need to ride on Friday to meet his target?  
Show how you reach your decision.

---

---

---

---

---

---

---

**(3 marks)**

John and Ryan both train in week 10 and ride on six days.

On any day they both ride the same distance as each other.

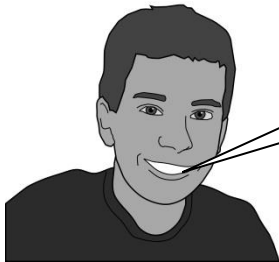
**(d) (i)** Show that John rides for 75 minutes on Tuesday.

---

---

**(1 mark)**

John says:



The average time  
for my rides in week  
10 is 67 minutes

**(ii)** Is John right?

---

---

---

---

---

---

---

---

---

---

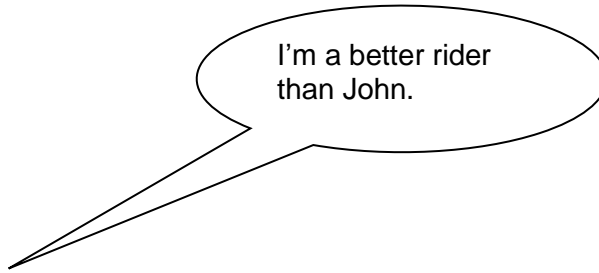
---

---

---

**(5 marks)**

Ryan says:



(iii) Is Ryan correct?  
Use calculations to justify your answer and give a reason.

---

---

---

---

---

---

---

---

---

---

**(4 marks)**

Examiner  
use only  
(Q2)

**Checking (2 marks)**

Examiner  
use only  
(Checking)

**Total marks**

Examiner  
use only  
(Total)

**END OF TASK B**

**TASK C – HALF TERM TRIP**

**You will need Task C Resource Document 1**

Sandy, Tony and their 2 children live in Sheffield.  
They want to visit friends in Belfast.

Sandy chooses the ferry that takes the shortest time.

**Q3 (a)** Which ferry does Sandy choose and how long does this crossing take?

---

---

---

---

**(2 marks)**

Sandy says



It takes about 4 hours to drive to Holyhead from Sheffield. Let's have lunch on the ferry.

**(b)** What time should the family leave Sheffield?

Give reasons for your answer.

---

---

---

---

---

---

**(3 marks)**

(c) Work out the total cost of the return fares on the Holyhead to Dublin ferry.

---

---

---

---

---

---

---

(3 marks)

Tony says



My car does about 11 miles on each litre of diesel. Diesel costs around £1.25 per litre.



We will have to drive to Holyhead and then drive from Dublin to Belfast.

(d) What is the total cost of the fuel to get to Belfast and back?

---

---

---

---

---

---

---

---

---

---

---

(5 marks)





(e) Should the family go by ferry or fly?

Show how you decide.

---

---

---

---

---

---

---

---

---

---

**(5 marks)**

Examiner  
use only  
(Q3)

**Checking (2 marks)**

Examiner  
use only  
(Checking)

**Total marks**

Examiner  
use only  
(Total)

**END OF TASK C**

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

**THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK**

Task 1 page 15 © dian555, istockphoto, www.istock.com

---

**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](http://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, OCR (Oxford Cambridge and RSA Examinations), The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

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.