

**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.**

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## 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.

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**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

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**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**

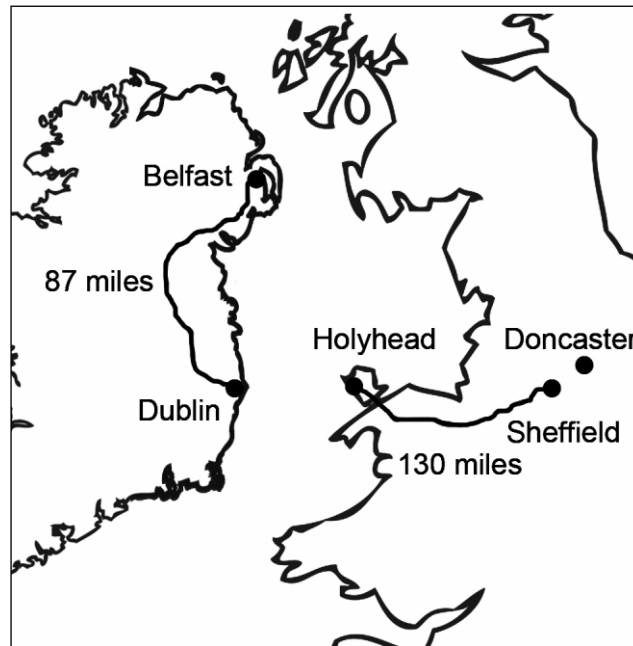
	<b>John</b>	<b>Ryan</b>
<b>Monday</b>	48 minutes	1 hour 6 minutes
<b>Tuesday</b>	1 hour 15 minutes	1 hour 14 minutes
<b>Wednesday</b>	1 hour 8 minutes	1 hour 13 minutes
<b>Thursday</b>	1 hour 23 minutes	1 hour 3 minutes
<b>Friday</b>	1 hour 11 minutes	49 minutes
<b>Saturday</b>	1 hour 9 minutes	1 hour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

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## 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

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## 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

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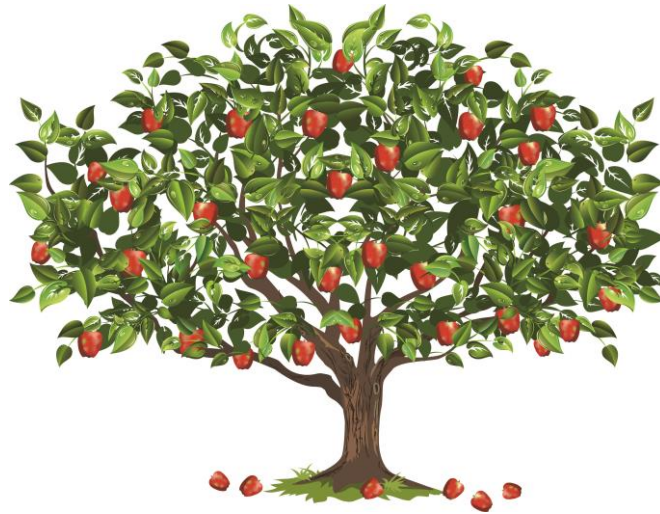
**TASK AND ANSWER PAGES**

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

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**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?

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**(1 mark)**

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

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**(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?

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**(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.

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**(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.

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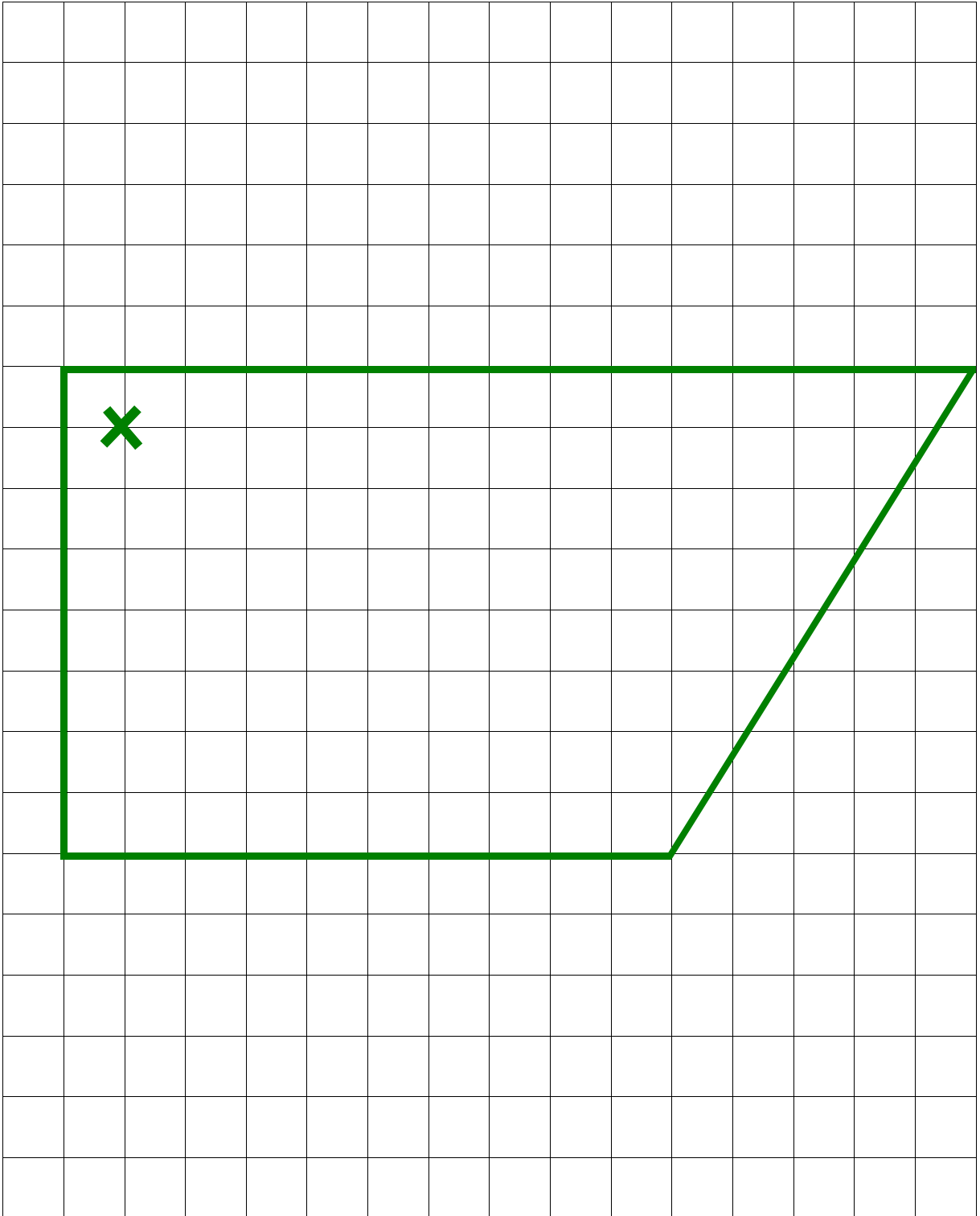
**(4 marks)**



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 **X**.

Can Jo plant all 25 trees in her field?

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(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?

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**(2 marks)**

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

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**(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.

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**(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.

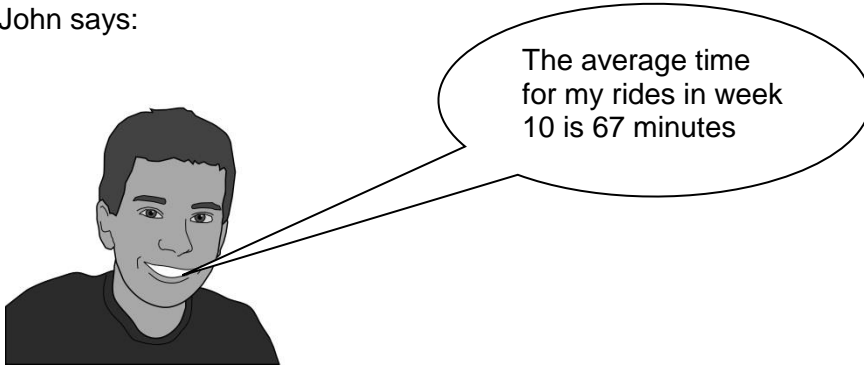
**(d) (i)** Show that John rides for 75 minutes on Tuesday.

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**(1 mark)**

John says:



**(ii)** Is John right?

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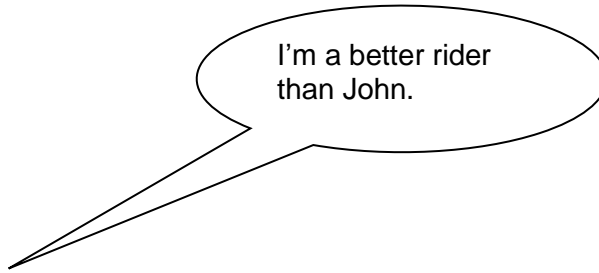
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**(5 marks)**

Ryan says:



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

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**(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?

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**(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.

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**(3 marks)**

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

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(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?

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(5 marks)





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

Show how you decide.

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**(5 marks)**

Examiner  
use only  
(Q3)

**Checking (2 marks)**

Examiner  
use only  
(Checking)

**Total marks**

Examiner  
use only  
(Total)

**END OF TASK C**

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

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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS**

**PRACTICE PAPER 4**

**Mark Scheme**

The maximum mark is 60

**OCR Level 1 Functional Skills Maths  
Mark Scheme Referencing**

<b>Our ref</b>	<b>Coverage and Range</b>
N1	Understand and use whole numbers and understand negative numbers in practical contexts
N2	Add, subtract, multiply and divide whole numbers using a range of strategies
N3	Understand and use equivalences between common fractions, decimals and percentages
N4	Add and subtract decimals up to two decimal places
N5	Solve simple problems involving ratio, where one number is a multiple of the other
N6	Use simple formulae expressed in words for one-or-two-step operations
G1	Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature
G2	Convert units of measure in the same system
G3	Work out areas and perimeters in practical situations
G4	Construct geometric diagrams, models and shapes
S1	Extract and interpret information from tables, diagrams, charts and graphs
S2	Collect and record discrete data and organise and represent information in different ways
S3	Find mean and range
S4	Use data to assess the likelihood of an outcome

**Process Skills/Skill Standards**

R = Representing

A = Analysing

I = Interpreting

<b>Representing</b>	<b>Our Ref</b>
Understand practical problems in familiar and unfamiliar contexts and situations, some of which are non-routine.	R1
Identify and obtain necessary information to tackle the problem	R2
Select mathematics in an organised way to find solutions	R3
<b>Analysing</b>	
Apply mathematics in an organised way to find solutions to straightforward practical problems for different purposes.	A1
Use appropriate checking procedures at each stage.	A2
<b>Interpreting</b>	
Interpret and communicate solutions to practical problems, drawing simple conclusions and giving explanations.	I1

## FS Maths L1 September 2011 Marking Guidance

### Task 1 – Orchard

Part	Process	Award	On evidence of	Notes	Skill Standards
					R A I
<b>a(i)</b>	Read table and apply rule for mode	<b>1</b>	(£) 11	Do not accept mean (£12.71)	R2
<b>a(ii)</b>	Interpret table	<b>1</b>	October		I1
<b>b</b>	Use proportions	<b>3</b>	<b>3</b> 15 apples <b>and</b> 10 pears <b>or</b> <b>2</b> 15 apples <b>or</b> 10 pears <b>or</b> <b>1</b> 5 or division by 5 or grouping into 5s seen		R3 A1 I1
<b>c</b>	Add prices and compare with £150	<b>3</b>	<b>2</b> 176 <b>or</b> <b>1</b> Attempt to add prices <b>without</b> £20 trees <b>and 1 from..</b> Jo spends more than (£)150 or (£)150 is not enough <b>or</b> <b>1</b> (No) Jo will have to spend (£)176 <b>or</b> Jo spends (£)26 extra	<b>0</b> for £216 (includes all prices)  Allow ft from <i>their</i> total for comments	R1 A1 I1
<b>d</b>	Work out cost of tree guards and stakes	<b>4</b>	<b>3</b> (£)68 <b>or</b> <b>2</b> (£)75 or 40.8(0) or 45 or 20.5(0) <b>and</b> 47.5(0) <b>or</b> <b>1</b> (£)0.82 or 1.9(0) or 20.5(0) or 47.5(0) or 22.5(0) or 52.5(0) or 28.5(0) or 12.3(0) seen <b>and</b> <b>1</b> Correct money conventions used in <i>their</i> answer	Allow equivalent figs in pence and <u>mark intention</u> 40.8 and 45 from 15 trees <u>ft transcription error for 2</u> Allow equivalent figures in pence from 25 or 15 items at low and high prices  Includes individual prices	R2 R3 A1 I1

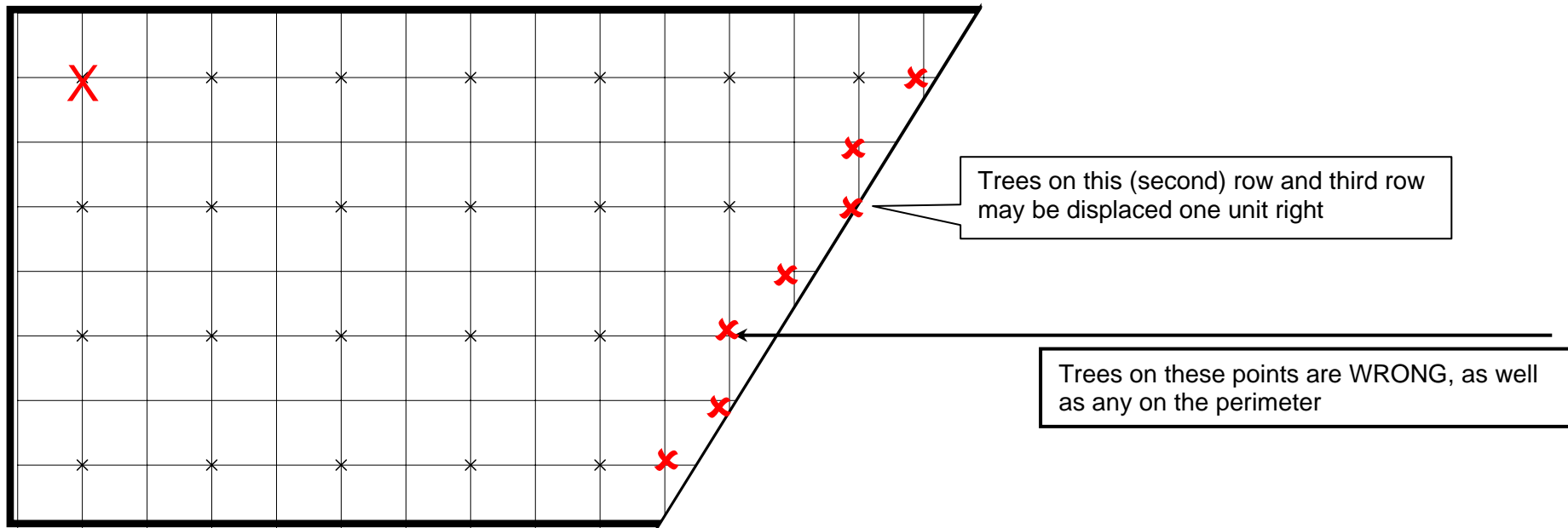
Part	Process	Award	On evidence of	Notes	Skill Standards R A I
e	Mark tree planting pattern on scale diagram	6	<p><b>Distance from edge</b></p> <p>2 20 trees and no tree &lt; 1cm from edge of field <b>or</b></p> <p>1 20 trees with trees &lt; 1 cm from edge of field <b>or</b> Fewer than 20 trees and none &lt; 1 cm from edge of field</p> <p><b>Distance apart</b></p> <p>2 20 trees and no tree &lt; 2cm from neighbour <b>or</b></p> <p>1 20 trees with trees &lt; 2cm from neighbour <b>or</b> Fewer than 20 trees and none &lt; 2 cm from neighbour</p> <p><b>Number of trees</b></p> <p>1 23 correctly spaced trees, including given tree <b>or</b> Correct count of <i>their</i> number of trees</p> <p><b>and one from..</b></p> <p>Jo can only plant <i>their</i> 23 (or <i>their</i> 23 – 1) trees</p> <p>1 Jo cannot plant all her (25) trees <i>Their</i> “No” with evidence on grid</p>	<p><b>Do not penalise same tree twice for first 4 marks</b></p> <p><b>Area Method</b> 1 for Area = 90 to 110 (A) 1 for Area of tree = 4m<sup>2</sup> (T) 1 for integer answer to A ÷ T</p> <p>Must include given tree</p> <p>If a number is quoted then must follow from their diagram</p>	R1 R2    A1    3I1
	Checking	2	<p>2 A clear check of a calculation <b>or</b></p> <p>1 Statement that an answer is reasonable, or 3 correct calculations throughout task <b>or</b></p> <p>0 Fewer than 3 correct calculations or answers and no checks</p>		2A2
	TOTAL	20		Totals	7    6    7



Expected solution and evidence

3d

	Individual prices	Guard and Stake	Individual	Paired	Individual	Paired
			15		25	
Tree guard low	£0.82	£2.72	£12.30	£40.80	£20.50	£68.00
Stake low	£1.90		£28.50		£47.50	
Tree guard high	£0.90	£3.00	£13.50	£45.00	£22.50	£75.00
Stake high	£2.10		£31.50		£52.50	



## Task 2 – On Your Bike

Part	Process	Award	On evidence of	Notes	Skill Standards R A I
<b>a</b>	Find how far John should be riding each day	<b>2</b>	<b>2</b> 7 (miles) <b>or</b> <b>1</b> 5 (miles) or $35 \div 5$ attempted	Penalise first use of 7 days as MR (instead of 5) then award full marks (ft) for parts <b>a</b> and <b>b c</b> .	<b>R2</b> <b>A1</b>
<b>b</b>	Decide if John has reached his target for week 7	<b>3</b>	<b>2</b> 45 or 9.6 (miles) seen <b>or</b> <b>1</b> $9 \times 5$ or $48 \div 5$ attempted <b>And</b> <b>1</b> States that target has not been reached AND correct mention of one of 48 or <i>their</i> difference (= 3) or 9.6 as daily mileage.	If 7 days then $7 \times 9 = 63$ $63 - 48 = 15$ miles extra  Statement correct for <i>their</i> figures	<b>R1</b> <b>A1</b> <b>I1</b>
<b>c</b>	Find the number of miles John needs to ride on Friday	<b>3</b>	<b>3</b> 11 or 12 miles (on Friday) <b>2</b> 60 and 49 seen or +1, -2, -1, +3 $\rightarrow$ +1 oe seen <b>1</b> Attempt ( $13+10+11+15$ ) or attempt (+1, -2, -1, +3 $\rightarrow$ +1 oe) or attempt ( <i>their</i> 60 – <i>their</i> 49) or $5 \times 12$ or 60 or 49 seen	-1, +2, +1, -3 $\rightarrow$ -1 (Order and attempt middle <b>2</b> )  If MR 7 days previously, then expect 84 here	<b>R1</b> <b>A1</b> <b>I1</b>
<b>d(i)</b>	Show that John rides for 75 minutes on Tuesday	<b>1</b>	<b>1</b> $60 + 15 (= 75)$ seen		<b>I1</b>
<b>d(ii)</b>	Find John’s average time	<b>5</b>	<b>4</b> (mean =) 69 or (median =) 70 <b>or</b> <b>3</b> <i>Their</i> $414 \text{ minutes} \div 6$ or 69 or 71 (from rank order) <b>or</b> <b>2</b> Attempt to add times in minutes or 414 or Attempt to order times or 68, 69, 71 <b>and</b> 83 <b>or</b> <b>1</b> Attempt to add times or 2 of 68, 69, 71 or 83 <b>And</b> <b>1</b> “John is not right” oe based on average.	69 or 71 attempt to find centre  Order 48, 68, 69, 71, (75, 83) $5\text{h } 114\text{m} \div 6 \neq 69$ <b>scores 1 mark.</b>  Must follow an average and be correct for <i>their</i> mean or median	<b>R2</b> <b>R3</b> <b>A1</b> <b>I1</b> <b>I1</b>

Part	Process	Award	On evidence of	Notes	Skill Standards		
					R	A	I
d(iii)	Proves who is the better rider	4	<p><b>2</b> Ryan's average (mean =) 65.5 or 66 or (median =) 67 or time difference = 21 minutes <b>or</b></p> <p><b>1</b> 393 or <i>their</i> total ÷ 6 or 49, 63, 66, 68, (73, 74) or Ryan total time 6h 33m or Attempt to compare times on 6 days.</p> <p><b>And</b></p> <p><b>1</b> "Ryan is better" oe AND reason supported by <i>their</i> figures</p> <p><b>And</b></p> <p><b>1</b> Attempt to comment on consistency (Eg range of performance on individual days) <b>or</b> Consistent use of time units throughout</p>	<p>Accept in hours and min</p> <p>Condone 6 33 if meaning clear</p> <p>Follow from <i>their</i> answers Condone "On most days Ryan rides faster"</p> <p>Eg On some days there was a big difference in times Ryan range = 25 John range 35</p>	R2 R3	A1	I1
	Checking	2	<p><b>2</b> A clear check of a calculation or</p> <p><b>1</b> Statement that an answer is reasonable, or 3 correct calculations throughout task <b>or</b></p> <p><b>0</b> Fewer than 3 correct calculations or answers and no checks</p>			A2 A2	
	Total	20		Total	7	7	6

### Task 3 –Half Term Trip

Part	Process	Award	On evidence of	Notes	Skill Standards		
					R	A	I
a	Choose ferry	2	<p>1 (Holyhead) to Dublin</p> <p>1 2 hours</p>	Is w or explanation that does not contradict answer	2R2		
b	Choose time to leave	3	<p><b>Leaving time from Sheffield</b></p> <p><i>For 1pm sailing</i>      <i>for 9am sailing</i></p> <p>2 8am to 9am oe      or      4am to 5am oe</p> <p>1 Correct time 4 to 5 hours before <b>wrong</b> ferry</p> <p>1 <b>Reason</b> for extra time such as, travel delays, check-in, time in hand to avoid rushing etc</p>	<p>Condone Belfast route Morning only eg 0845</p> <p>Must be wrong ferry. If time is 8-9 or 4-5am and ferry inconclusive, award mark.</p> <p>Award for any sensible reason explicitly stated</p>	R2	2I1	
c	Cost of ferry	3	<p>3 274 or 334 oe</p> <p>2 figs 274 or figs 334 or 148 or 2 x 46 + 2 x 28 or 188 or 2 x 56 + 2 x 38</p> <p>1 46 or 28 or 126 or 56 or 38 or 146 soi</p>	<p>Condone missing £</p> <p>£27.4, 3340p or 2740</p> <p>Reward complete method</p> <p>Do not penalise wrong money notation BUT, if answer in pence, must show p.</p>	R3	A1	I1

Part	Process	Award	On evidence of	Notes	Skill Standards		
					R	A	I
d	Cost of journey	5	<p><b>Distance</b></p> <p>2 434 or 440 [D]</p> <p>1 217 or 220 [D]</p> <p><b>Fuel cost</b></p> <p>3 Cost in range £53.26 – £54 or £26.63 – £27 oe <i>Their</i> [D] ÷ 11 x 1.25 (or x 0.11(3636..)) correct</p> <p>2 Attempt <i>their</i> number of litres x 1.25 oe</p> <p>1 Attempt ÷ 11 oe or x 1.25</p>	<p>440 from rounding</p> <p>217 may be implied from later work eg 130 and 87 seen with a cost which is later added</p> <p>Correct money conventions for answer Correct cost implies distance mark www</p> <p>Must be <i>their</i> number of litres and not <i>their</i> distance Reward at any stage</p>	R2	2A1	I1

Part	Process	Award	On evidence of	Notes	Skill Standards		
					R	A	I
e	Choose flights	5	<p><b>2</b> Cost of flights 143.92 or 144 [F]</p> <p><b>1</b> Attempt any price from table (may round) x 4 [F]</p> <p><b>2</b> Total cost of flights 275.92 or 276 + any reference to fuel or Their [F] +132 + any reference to fuel.</p> <p><b>1</b> 275.92 or 276 seen or Their [F] + 132</p> <p><b>1</b> Comparison Any comparison with total ferry cost or highest component of ferry cost if greater than flight cost or Sensible reason – take car as can carry more, ferry would take longer, need to pay parking, need to travel to airport etc</p>	<p>[F] is <i>their</i> flight cost</p> <p>Addition must be correct</p> <p>Addition must be correct</p> <p>Eg A ferry cost seen and “flights cheaper”</p> <p><b>If no working</b> Answer based on cost scores <b>0</b> Reward other answers appropriately (such as convenience)</p>	R3	2A1	2I1
	Checking	2	<p><b>2</b> A clear check of a calculation <b>or</b></p> <p><b>1</b> Statement that an answer is reasonable, or 3 correct calculations that would lead to an acceptable answer throughout the task <b>or</b></p> <p><b>0</b> Fewer than 3 correct calculations or answers and no checks</p>				2A2
	<b>TOTAL</b>	<b>20</b>		<b>Totals</b>	<b>7</b>	<b>7</b>	<b>6</b>

### Expected solution and evidence

- (a) Choose ferry to Dublin. This ferry takes 2 hours.
- (b) Take 1pm ferry. 4 hours before 1pm is 9am. Leave at least  $\frac{1}{2}$  hour earlier than this to allow for check-in or delays enroute.
- (c)  $2 \times 46 + 2 \times 28 + 126 = \text{£}274$
- (d)  $(130 + 87) \times 2 = 434$  miles.  $434 / 11 = 39.45(4545\dots) =$  about 40 litres of diesel. Cost  $40 \times 1.25 = \text{£}50$
- (e) Cost using ferry +  $274 + 50 = \text{£}324$

Cheapest flights =  $4 \times 15.99 + 4 \times 19.99 = \text{£}143.92$

Add cost car hire  $\text{£}132$

Total cost when fly =  $143.92 + 132 = \text{£}275.92$