

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**FUNCTIONAL SKILLS ASSESSMENT PILOT**

**LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS**

**06924**

**TASK AND ANSWER BOOKLET**

This assessment may be taken within these dates

**7 – 11 JANUARY 2008**

**TIME: 1 HOUR 15 MINUTES**

**INSTRUCTIONS**

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

Centre name

Centre number

Your OCR candidate number

Your surname or family name

Your first forename (if any)

Your second forename (if any)

Date of birth

**YOU NEED**

- This task and answer booklet
- A pen with black or blue ink
- A calculator

**YOU HAVE 1 HOUR AND 15 MINUTES TO COMPLETE THE 3 TASKS. YOU ARE ADVISED TO SPEND 5 MINUTES PLANNING AND 20 MINUTES WORKING ON EACH TASK.**

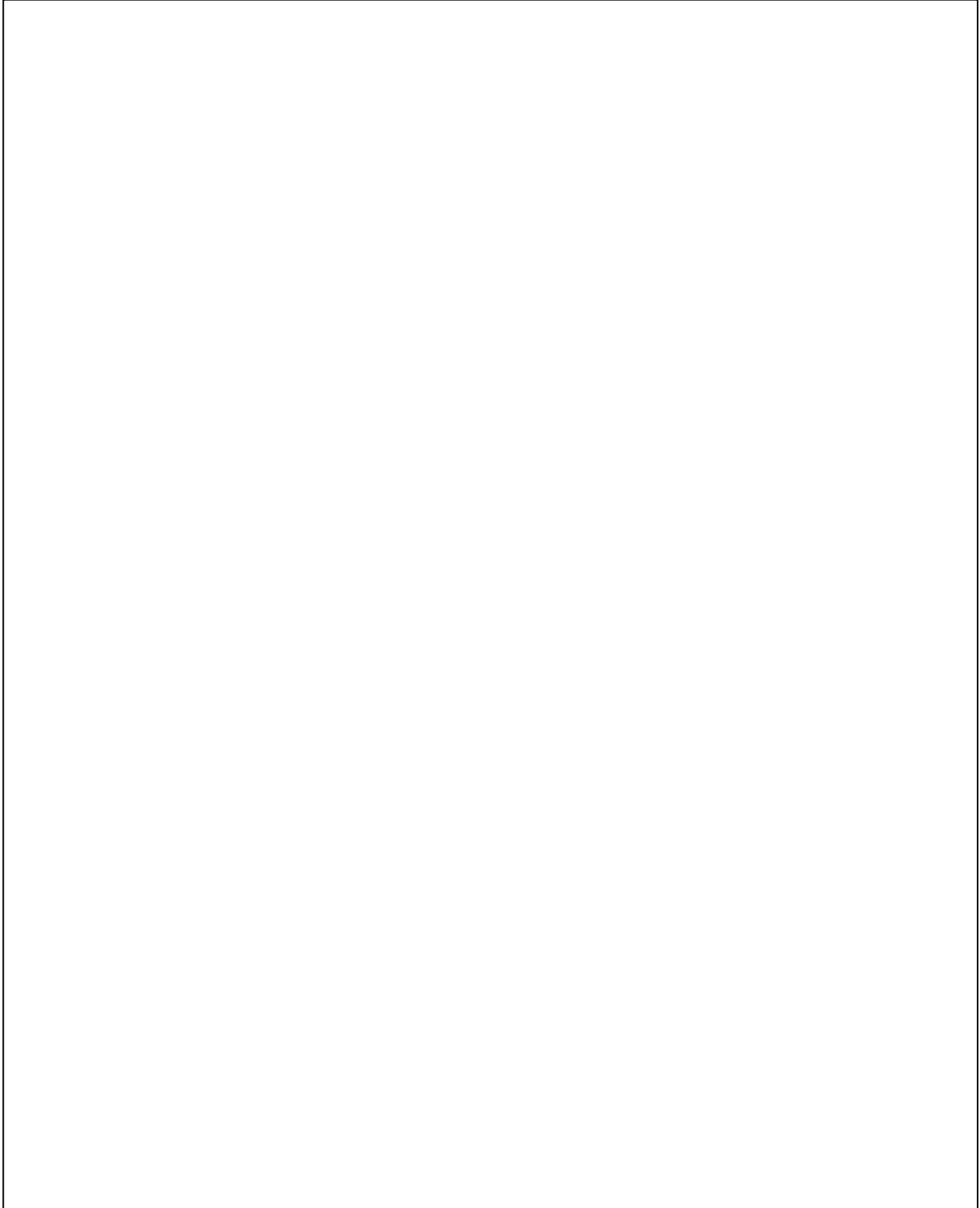
- Read the tasks inside this booklet carefully before starting the tasks
- Write your answers in this booklet
- When you have finished, hand this booklet to the supervisor

<b>FOR EXAMINERS' USE ONLY</b>	
<b>Task No.</b>	<b>Mark</b>
1a	/6
1b	/10
2a	/4
2b	/12
3a	/2
3b	/2
3c	/12
<b>Total</b>	<b>/48</b>

## TASK 1

### Planning sheet

Any work on this sheet may be used to contribute to the examiner's understanding of your answer.

A large, empty rectangular box with a thin black border, intended for students to write their planning work. The box occupies most of the page below the instructions.

# Norman's Carpets

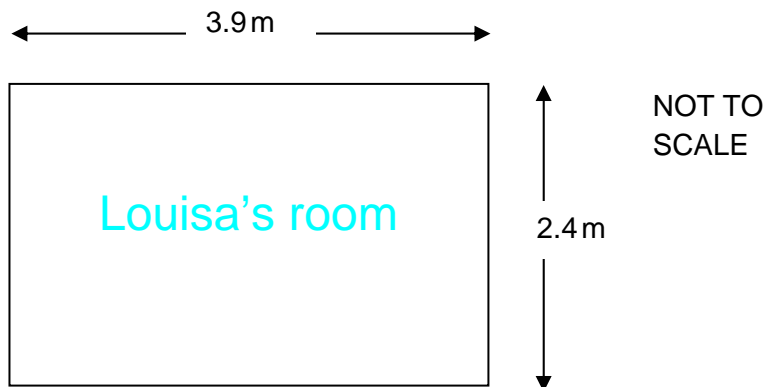


We sell carpets in rolls of width 4 m or 3 m.  
Any length can be cut from a roll

Norman sells carpets in two widths. A customer can buy any length of carpet from a roll but must take the complete width. The piece of carpet is cut to fit the room when it is in place.

Louisa has a room that is 3.9m long and 2.4m wide.

This is a plan of her room.



Louisa goes to buy the carpet for her room. Norman tells her:

- she must not join carpet to carpet
- she needs to buy **10cm more** carpet than the length of any wall she has measured. For example: if a wall was measured as 5m, then she would need to buy 5m 10cm of carpet.

Louisa works out that there are two ways that she can buy just enough carpet.

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## TASK 2

### Planning sheet

Any work on this sheet may be used to contribute to the examiner's understanding of your answer.

A large, empty rectangular box with a thin black border, intended for students to write their planning work. The box occupies most of the page below the instructions.

The timetable shows the times of trains for travel between Inverness and Perth.

### Inverness – Perth Railway Timetable

<b>Inverness</b>	<b>0645</b>	<b>0755</b>	<b>0920</b>	<b>1051</b>	<b>1240</b>	<b>1440</b>	<b>1655</b>	<b>1827</b>	<b>2010</b>
<b>Carrbridge</b>			<b>0950</b>	<b>1123</b>				<b>1857</b>	
<b>Aviemore</b>	<b>0722</b>	<b>0830</b>	<b>1004</b>	<b>1136</b>	<b>1323</b>	<b>1518</b>	<b>1732</b>	<b>1911</b>	<b>2055</b>
<b>Kingussie</b>	<b>0736</b>	<b>0843</b>	<b>1016</b>	<b>1148</b>	<b>1336</b>	<b>1530</b>	<b>1744</b>	<b>1930</b>	<b>2107</b>
<b>Newtonmore</b>			<b>1021</b>			<b>1535</b>	<b>1749</b>	<b>1934</b>	<b>2112</b>
<b>Dalwhinnie</b>			<b>1032</b>				<b>1800</b>	<b>1946</b>	<b>2123</b>
<b>Blair Atholl</b>			<b>1054</b>			<b>1605</b>	<b>1822</b>	<b>2008</b>	<b>2146</b>
<b>Pitlochry</b>	<b>0816</b>	<b>0924</b>	<b>1104</b>	<b>1230</b>	<b>1415</b>	<b>1614</b>	<b>1833</b>	<b>2017</b>	<b>2158</b>
<b>Dunkeld</b>	<b>0828</b>		<b>1116</b>	<b>1243</b>	<b>1428</b>	<b>1627</b>	<b>1845</b>	<b>2030</b>	<b>2211</b>
<b>Perth</b>	<b>0847</b>	<b>0955</b>	<b>1136</b>	<b>1302</b>	<b>1447</b>	<b>1643</b>	<b>1906</b>	<b>2049</b>	<b>2225</b>

- (a) Phil lives in Nethy Bridge and wants to get to Perth by 1700. He can drive from Nethy Bridge to the nearest railway station, Aviemore, in 20 minutes. What is the latest time he should leave home to catch a train which will get him to Perth by 1700?

You must show your calculations and state how you have used them to get your answer.

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**(4 marks)**

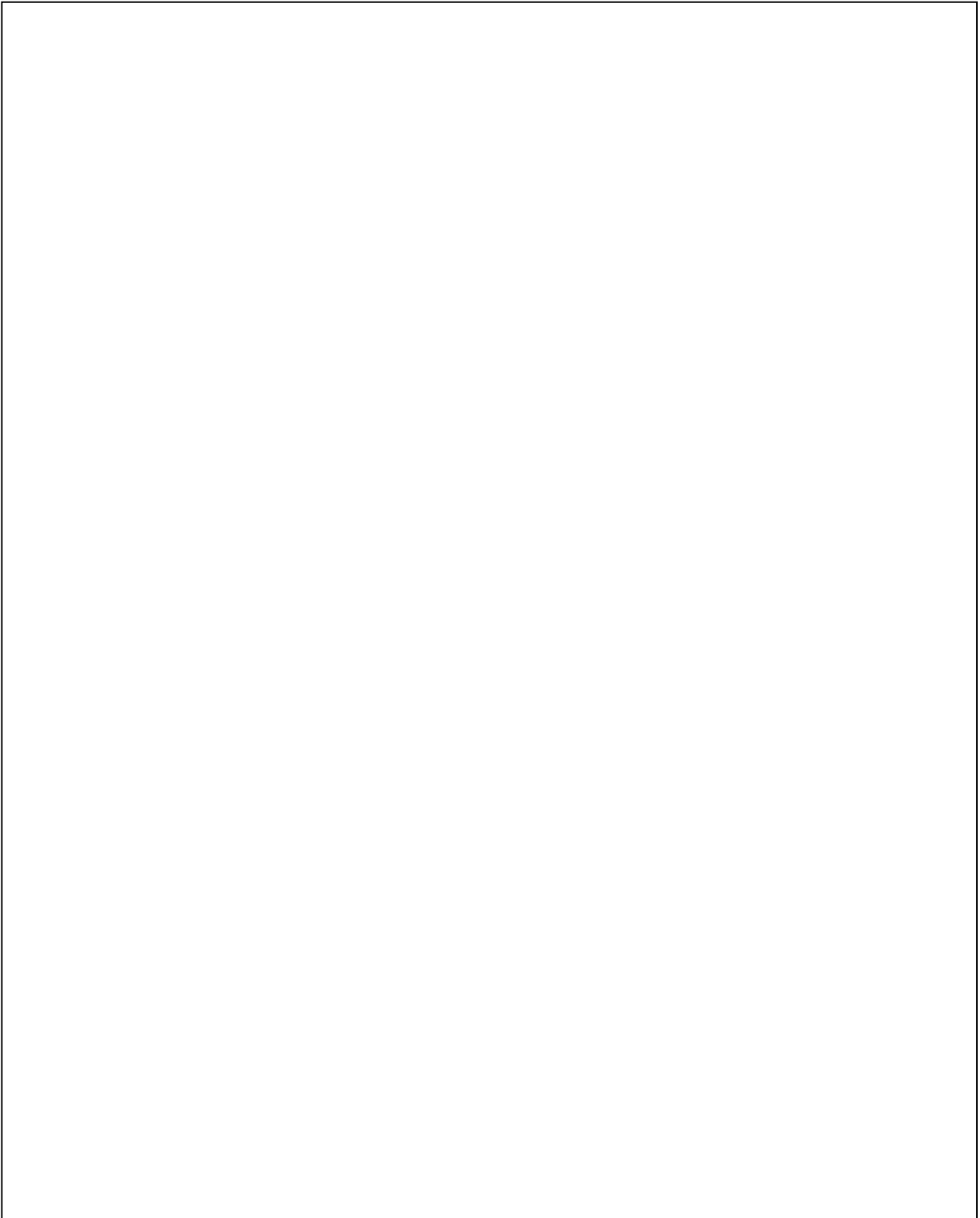
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### **TASK 3**

#### **Planning sheet**

Any work on this sheet may be used to contribute to the examiner's understanding of your answer.

A large, empty rectangular box with a thin black border, intended for students to write their planning for the task. It occupies most of the page below the instructions.

Barry runs a delivery company from a warehouse in Manchester. Barry decides the routes that the drivers will take when making their deliveries. The drivers pick up their loaded vans from the warehouse at 09:00 and do not return to the warehouse until all the deliveries are completed. They must return by 17:00 on the same day.

- (a) What is the greatest number of hours that a van could be away from the warehouse? You must show your calculations and state how you used them to get your answer.

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**(2 marks)**

This is one of the distance charts that Barry uses. It shows distances, in miles, by the quickest route between places.

	Leeds				
74	Liverpool				
44	34	Manchester			
69	36	35	Preston		
38	79	39	73	Sheffield	
93	57	46	66	50	Stoke-on-Trent

Barry looks up the distance from Manchester to Liverpool as 44 miles.

- (b) Why is Barry wrong?

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**(2 marks)**

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