

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

09865

TASK AND ANSWER BOOKLET PRACTICE PAPER 2

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		
1	/6	/20
2	/5	
3	/9	
TASK B		
1	/3	/20
2	/6	
3	/3	
4	/8	
TASK C		
1	/5	/20
2	/4	
3	/2	
4	/9	
Total	/60	

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

THIS PAGE HAS BEEN INTENTIONALLY LEFT 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 – NURSERY**RESOURCE DOCUMENT 1**

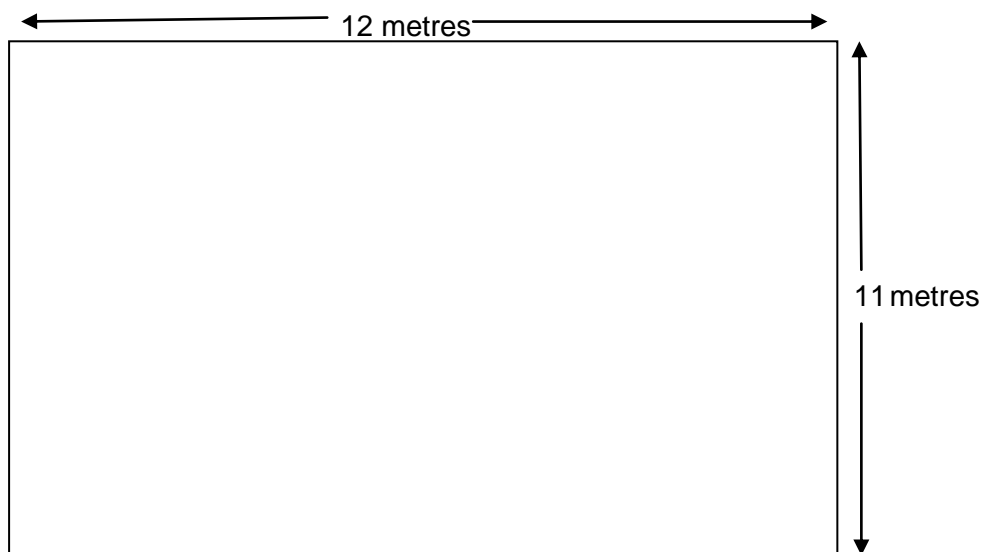
Floor space needed for each child in a nursery.

Age of child	Minimum amount of clear floor space needed for each child
Under 2 years	3.5 m ²
2 years	2.5 m ²
3 - 5 years	2.3 m ²

Adult to child ratio in a nursery

Age of child	Maximum number of children that each adult can supervise
Under 2 years	3 children
2 years	4 children
3-5 years	8 children

Plan of nursery floor space



not to scale

[Turn over

THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK B – TIMESHEET**RESOURCE DOCUMENT 1****Timesheet for Bob**

Timesheet for Bob		Week 10	
Day	Start	Finish	Hours at work
Sunday			
Monday	0930	1815	8 hrs 45 mins
Tuesday	1100	1930	8 hrs 30 mins
Wednesday	1330	2100	7 hrs 30 mins
Thursday	1400	2130	7 hrs 30 mins
Friday	1400	2215	
Saturday			

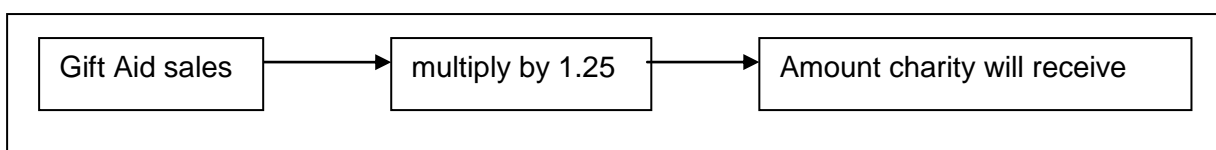
THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK

TASK C – CASH FOR CLOTHES**RESOURCE DOCUMENT 1**

Sue keeps a tally chart for the bags of clothes donated over the first 10 weeks.

Week	Number of bags donated	
1	-	18
2	-	16
3	-	25
4	- -	27
5	-	
6	-	29
7	- -	32
8	-	35
9	- -	40
10	- -	44

This rule calculates the amount that the charity receives including Gift Aid.



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 – NURSERY**You will need Task A Resource Document 1**

The local nursery must follow the regulations for the number of children that the adults can supervise at the same time.

Q1 (a) What is the minimum amount of clear floor space needed by a 3 year old child?

(1 mark)

(b) How many children, aged 2 years, can 3 adults supervise?

(2 marks)

On a Monday the following children attend the nursery:

- 6 children under 2 years
- 12 children aged 2 years
- 16 children aged 3-5 years

(c) How many adults are needed to supervise these children?

Show your calculations.

(3 marks)

Examiner
use only
(Q1)

[Turn over

Q2 (a) What is the area of the nursery floor space?

(3 marks)

The play equipment fills 25% of the floor space.

(b) How much clear floor space is there for the children?

(2 marks)

Examiner
use only
(Q2)

The nursery has 9 children under 2 years, 12 children aged 2 years and 15 children aged 3 to 5 years who want to attend on a Friday.

There are 7 adults available to supervise the children.

Q3 Would the nursery be able to take all the children? Give a reason for your answer.

You must show calculations for the clear floor space **and** the number of adults.

(7 marks)

Examiner
use only
(Q3)

Checking (2 marks)

Examiner
use only
(Checking)

Total marks

Examiner
use only
(Total)

END OF TASK A

[Turn over

TASK B – TIMESHEET

You will need Task B Resource Document 1

Bob works as a chef.

Q1 (a) On which day does Bob start work at 1.30pm?

(1 mark)

(b) How long is Bob at work for on Friday?

(2 marks)

Examiner
use only
(Q1)

Bob gets paid £10.50 per hour. He has an unpaid break for half an hour each day.

Bob thinks that he will earn about £400 this week.

Q2 Is Bob right?

Show your calculations.

(6 marks)

Examiner
use only
(Q2)

Bob has to pay deductions of Income Tax, National Insurance and pension on what he earns.

Bob estimates that he pays $\frac{1}{4}$ of what he earns for these deductions.

Q3 How much will Bob receive this week after he has paid deductions?

(3 marks)

Examiner
use only
(Q3)

When Bob works overtime he is paid $1\frac{1}{2}$ times his normal hourly pay of £10.50.

Q4 (a) How much does Bob earn for each hour of overtime?

(2 marks)

Bob is saving up for a new television which costs £250.

Bob thinks that if he works overtime for 20 hours he will earn enough, after deductions, to pay for the television.

(b) Is Bob right?

Show your calculations.

(4 marks)

Examiner
use only
(Q4)

Checking (2 marks)

Examiner
use only
(Checking)

Total marks

Examiner
use only
(Total)

END OF TASK B

THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK

[Turn over

TASK C – CASH FOR CLOTHES**You will need Task C Resource Document 1**

Sue runs a new charity shop.

It sells clothes that are donated to raise money for charity. It hopes to raise at least £32 000 in the first year.

Q1 (a) How many bags of clothes were donated in week 5?

(1 mark)

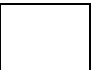
(b) How many bags of clothes were donated in the first 10 weeks?

(2 marks)

(c) What is the average number of bags donated per week?

(2 marks)

Examiner
use only
(Q1)



The shop expects that 1600 bags of clothes will be donated in the first year.

Q2 From the donations received so far do you think that the shop will reach its target?

Show your calculations. Give a reason for your decision.

(4 marks)

Examiner
use only
(Q2)

The shop cannot sell all the bags of clothes that are donated. These clothes are recycled.

Sue estimates that 20% of the bags of clothes will be recycled.

Q3 If 1600 bags are donated in the first year, how many bags of clothes will be recycled?

Show your calculations.

(2 marks)

Examiner
use only
(Q3)

(5 marks)

Examiner
use only
(Q4)

Checking (2 marks)

Examiner
use only
(Checking)

Total marks

Examiner
use only
(Total)



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, 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.