

Ma

KEY STAGE

2

LEVELS

3–5

2003

This booklet contains **CONFIDENTIAL** test questions. It **MUST BE KEPT SECURE**. It should not be opened until the mental mathematics test is due to start on Thursday 15 May. Early opening, up to one hour before the test starts, is permissible only if papers are needed for administrative purposes.

Mathematics

Mental mathematics test audiotape transcript

This booklet contains a transcript of the key stage 2 mental mathematics test. It should be used **ONLY** in cases of tape failure or for specific special arrangements outlined in the 2003 *Teacher's guide* and in the 2003 *Assessment and reporting arrangements* booklet for key stage 2.

2003



Guarding standards

Downloaded from Compare4Kids.co.uk

department for

education and skills

creating opportunity, releasing potential, achieving excellence

Notes for teacher-read version

Instructions

In the event of a tape failure, the teacher should follow the instructions below.

1. Children should have only pens or pencils. They should not have rubbers, rulers, calculators or any mathematical equipment. Access to paper for working out answers is **not allowed**.
2. Ensure that each child has an answer sheet. Tell the children to write their name and school in the box at the top of the answer sheet.
3. Ensure the children understand that:
 - they must complete the test on their own without copying or discussing questions with other children;
 - they will be told how long they have to answer each question and that the time given will increase from 5, to 10, to 15 seconds as the test progresses through the three sections;
 - for some of the questions, the information they will need is included in or beside the answer box on the pupil answer sheet;
 - they are not allowed to use a calculator or any other mathematical equipment;
 - if they want to change their answer, they should put a cross through their first answer. They are not allowed to rub out any answers;
 - they should answer as many questions as they can. If they find a question too difficult, they should put a cross in the answer box, and wait for the next question;
 - they should not write in the white boxes in the blue margins;
 - they will not be allowed to ask any questions once the test has started.
4. You must have access to a clock or watch that measures accurately in seconds.
5. Read out the following script, **using exactly these words**:

Listen carefully to the instructions I am going to give you. When I have finished reading them, I will answer any questions. However, you will not be able to ask any questions once the test has begun.

I will start by reading a practice question. Then I am going to ask you 20 questions for the test. On your sheet there is an answer box for each question, where you should write the answer to the question and nothing else. You should work out the answer to each question in your head, but you may jot things down outside the answer box if this helps you. Do not try to write down your calculations because this will waste time and you may miss the next question. For some of the questions, important information is already written down for you on the sheet.

I will read out each question twice. Listen carefully both times. You will then have time to work out your answer. If you cannot work out an answer, put a cross in the answer box. If you make a mistake, cross out the wrong answer and write the correct answer next to it. There are some easy and some harder questions, so don't be put off if you cannot answer a question.

6. Stop and answer any questions that the children may have.

7. Read out the following:

*Here is the **practice** question to show you what to do.*

I will read the question twice, and you will have 5 seconds to work out the answer and write it in the answer box.

What number is half of twenty?

Repeat the question.

What number is half of twenty?

Wait five seconds (measured accurately using a clock or watch), then read out the following:

Now put down your pen or pencil.

8. Ensure that the children have correctly placed their answers to the practice question on their answer sheets. Remind the children that, for some questions, information is provided in or beside the answer box. When they are ready to begin the test, tell the children that you will not be able to answer any further questions, or interrupt the test, once you have started reading the questions.
9. The questions are given on page 4 of this booklet. The questions must be read out exactly as written. Start by stating the question number, then read each question twice before leaving the 5, 10 or 15 second response time. **These timings must be strictly adhered to.**
10. At the end of the test, tell the children to put down their pens or pencils, then collect their answer sheets.

Test questions

'Now we are ready to start the test. For this group of questions, you will have 5 seconds to work out each answer and write it down.'

The questions	
1	Write in figures the number one thousand and twenty.
2	Divide ninety by three.
3	Multiply seven by six.
4	What is twenty out of forty as a percentage?
5	How many grams are there in twelve kilograms?

'For the next group of questions, you will have 10 seconds to work out each answer and write it down.'

6	How much must I add to four pounds ninety to make six pounds?
7	Look at your answer sheet. Put a ring around the shape which has only one line of symmetry.
8	What is three times three added to four times four?
9	Subtract one point nine from two point seven.
10	What is one-half added to three-quarters?
11	Calculate the perimeter of a rectangle which is eleven metres long and four metres wide.
12	How many forties are there in eight hundred?
13	When h has the value twelve, calculate five h minus two.
14	Look at your answer sheet. Put a ring around the decimal which is equal to one-fifth.
15	What is three-quarters of five hundred?

'For the next group of questions, you will have 15 seconds to work out each answer and write it down.'

16	What number is thirty-four more than fifty-eight?
17	Look at the list on your answer sheet. It shows the price of pizzas. How much more does a large pizza cost than a small one?
18	What is fifteen multiplied by eleven?
19	A yogurt costs forty-five pence. How many yogurts can be bought for five pounds?
20	Look at your answer sheet. What is the angle between the hands of a clock at four o'clock?

'Now put down your pen or pencil. The test is finished.'

Key stage 2 mathematics 2003 mental mathematics test

First name Last name

School

Total marks

Practice question

--	--

Time: 5 seconds

1	
---	--

2		90
---	--	----

3	
---	--

4	%	40
---	---	----

5	g
---	---

1
2
3
4
5

Time: 10 seconds

6	£	£4.90
---	---	-------

7	
---	--

8	
---	--

9		1.9
---	--	-----

10	
----	--

11	m
----	---

6
7
8
9
10
11

12		40
----	--	----

13		$5h - 2$
----	--	----------

14	0.1	0.2	0.3	0.4	0.5
----	-----	-----	-----	-----	-----

15		500
----	--	-----

12
13
14
15

Time: 15 seconds

16		34
----	--	----

17	Pizzas	
	Small	£6.50
	Medium	£7.50
	Large	£8.40
	£	

18		15
----	--	----

19		45p
----	--	-----

20	
	degrees

16
17
18
19
20

First published in 2003

© Qualifications and Curriculum Authority 2003

Reproduction, storage, adaptation or translation, in any form or by any means, of this publication is prohibited without prior written permission of the publisher, unless within the terms of licences issued by the Copyright Licensing Agency. Excerpts may be reproduced for the purpose of research, private study, criticism or review, or by educational institutions solely for educational purposes, without permission, provided full acknowledgement is given.

Produced in Great Britain by the Qualifications and Curriculum Authority under the authority and superintendence of the Controller of Her Majesty's Stationery Office and Queen's Printer of Acts of Parliament.

The Qualifications and Curriculum Authority is an exempt charity under Schedule 2 of the Charities Act 1993.

Qualifications and Curriculum Authority
83 Piccadilly
London
W1J 8QA

www.qca.org.uk/

For more copies, contact:

QCA Publications, PO Box 99, Sudbury, Suffolk CO10 2SN
(telephone 01787 884444; fax 01787 312950)

Order ref:

QCA/03/1009 (mark schemes pack)

QCA/03/1015 (mental mathematics test pack)

254918