

**Ma**

**KEY STAGE  
2**

**LEVELS  
3–5**

**2010**

Mathematics tests

# Mental mathematics

Test transcript

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  
**WEDNESDAY 12 MAY 2010.**

EARLY OPENING, UP TO ONE HOUR BEFORE THE TEST STARTS,  
IS PERMISSIBLE ONLY IF PAPERS ARE NEEDED FOR ADMINISTRATIVE  
PURPOSES.

This booklet contains a transcript of the key stage 2 mental mathematics test.  
It should be used **ONLY** in the case of CD failure or for specific special  
arrangements outlined in the *2010 Assessment and reporting arrangements*  
booklet for key stage 2.

# Notes for use of transcript

## Instructions

In the event of CD failure, the test administrator should follow the instructions on pages 2 and 5.

1. Pupils 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 pupil has an answer sheet. Tell the pupils to write their name, school and DCSF number in the box at the top of the answer sheet.
3. Ensure the pupils understand that:
  - they must complete the test on their own without copying or discussing questions with other pupils
  - 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. The test administrator must have access to a clock or watch that measures accurately in seconds.

Instructions continued on page 5

## 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	Add twelve to twenty-nine.
2	What is two hundred and sixty-three rounded to the nearest hundred?
3	Write one-tenth as a decimal.
4	Divide seventy-two by eight.
5	What is seven point five multiplied by one thousand?

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

6	What is the sum of two and four and six and eight?
7	Subtract twenty-five from eight hundred.
8	What is half of nine added to half of eight?
9	How many grams must you add to four hundred and fifty grams to make half a kilogram?
10	Subtract three point six from ten.
11	How many fifties are there in one thousand?
12	Pens cost one pound thirty-five each. How much will four pens cost?
13	Write a fraction that is equivalent to ten-fourteenths.
14	Two angles together make a right angle. One of the angles is fifty-six degrees. What is the other angle?
15	The area of a square is one hundred square centimetres. What is the length of a side?

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

16	Double twenty-three, then double the answer.
17	Look at your answer sheet. Put a ring around the number which is the approximate answer to sixty-two point three multiplied by five point nine.
18	How many hours is it from ten pm today to seven am tomorrow?
19	Write a number greater than one hundred that has four and five as factors.
20	Multiply twelve by twenty-one.

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

# Key stage 2 mathematics 2010 mental mathematics test

First name .....

Last name .....

School .....

DCSF no. ....

Total  
marks

## Practice question

11		50	<input type="text"/> 11
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### Time: 5 seconds

1		29	<input type="text"/> 1
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12	£	£1.35	<input type="text"/> 12
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2			<input type="text"/> 2
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13		$\frac{10}{14}$	<input type="text"/> 13
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3			<input type="text"/> 3
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14		°	<input type="text"/> 14
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4			<input type="text"/> 4
---	--	--	------------------------

15		cm	<input type="text"/> 15
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5		7.5	<input type="text"/> 5
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### Time: 15 seconds

16			<input type="text"/> 16
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### Time: 10 seconds

6			<input type="text"/> 6
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17	0.36    3.6 36    360 3600		<input type="text"/> 17
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7		25	<input type="text"/> 7
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18	hours		<input type="text"/> 18
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8		9	<input type="text"/> 8
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19		4    5	<input type="text"/> 19
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9	g	450g	<input type="text"/> 9
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20		12    21	<input type="text"/> 20
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10			<input type="text"/> 10
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5. Read out the following script, using exactly these words:

*Listen carefully to the instructions I am going to give you.*

*I am going to ask you 20 questions for the test. I will read each question twice. Listen carefully both times. You will then have time to work out your answer.*

*On your sheet there is an answer box for each question, where you should write the answer and nothing else. Some questions are easy and some are harder, so don't worry if you cannot answer a question.*

*For some of the questions, important information is already written down for you on the sheet.*

*You should work out the answer to each question in your head. Do not try to write down your calculations. This will waste time and you may miss the next question. However, you may jot things down outside the answer box if this helps you.*

*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 then write the correct answer next to it.*

*You will not be able to ask questions once the test has begun. If you have any questions you may ask them now.*

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

7. Read out the following:

*I will start by reading a practice question to show you what to do.*

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

*What number is ten less than one hundred?*

Repeat the question.

*What number is ten less than one hundred?*

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 pupils have correctly placed their answers to the practice question on their answer sheets. Remind the pupils that, for some questions, information is provided in or beside the answer box. When they are ready to begin the test, tell the pupils 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 3 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 pupils to put down their pens or pencils, then collect their answer sheets.

