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KEY STAGE

2

LEVELS

3–5

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 11 MAY 2011**.

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 2011 *Assessment and reporting arrangements* booklet for key stage 2.

2011

# 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 DfE 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	Write in figures six thousand two hundred and four.
2	Multiply seven by four.
3	What is half of eight thousand five hundred?
4	Subtract two point five from ten.
5	How many millimetres are there in six and a half centimetres?

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

6	What is four pounds sixty-four rounded to the nearest pound?
7	Add together eighty-five and ninety-five.
8	How many minutes are there in one and a quarter hours?
9	What is the remainder when you divide forty-eight by five?
10	What is double zero point six five?
11	What is fifty-two multiplied by eight?
12	Look at the row of five numbers on your answer sheet. Put a ring around the number that is a factor of both sixty and ninety.
13	What is the difference between eight hundred and one hundred and seventy-nine?
14	What is twenty percent of one thousand?
15	Look at your answer sheet. When $k$ is equal to ten and $n$ is equal to eleven, what does three $k$ plus $n$ equal?

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

16	Two cereal bars cost fifty-five pence altogether. How much will it cost to buy four cereal bars?
17	Each side of a square is four and a half centimetres long. What is the perimeter of the square?
18	Write the number between one hundred and ten and one hundred and twenty whose digits add up to six.
19	What is three-eighths of fifty-six?
20	What is one minus zero point zero zero one?

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

# Key stage 2 mathematics 2011 mental mathematics test

First name ..... Last name .....

School .....

DfE no. ....

Total marks

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## Practice question

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## Time: 5 seconds

<b>1</b>		
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<b>2</b>		
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<b>3</b>		8500	
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<b>4</b>		2.5	
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<b>5</b>		mm	
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## Time: 10 seconds

<b>6</b>		£	
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<b>7</b>		85 95	
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<b>8</b>		min	
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<b>9</b>		5	
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<b>10</b>		0.65	
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<b>11</b>		
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<b>12</b>	15 20 25 40 45	
	60 90	

<b>13</b>		179	
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<b>14</b>		
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<b>15</b>		$3k + n$	
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## Time: 15 seconds

<b>16</b>		55p	
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<b>17</b>		cm	
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<b>18</b>		
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<b>19</b>		
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<b>20</b>		0.001	
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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.*

*How many months are there in one year?*

Repeat the question.

*How many months are there in one year?*

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.

