Mathematics test

Mental mathematics

Test transcript

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 access arrangements outlined in the 2012 Key Stage 2 *Assessment and reporting arrangements*.

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.

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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 is twenty add twelve?

Repeat the question.

What is twenty add twelve?

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.

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	What is double thirty-six?
2	What time is it half an hour before eleven o'clock?
3	Divide forty-two by seven.
4	Subtract forty-five from one hundred and twenty.
5	What is two-thirds of one hundred and fifty?

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

6	Add twenty-nine to eighty-nine.
7	Cakes cost one pound twenty-five each. How much do four cakes cost?
8	Multiply three by eight, then subtract nine.
9	How many metres are there in half a kilometre?
10	What is twenty-five percent of six hundred?
11	Look at your answer sheet. How much does it cost altogether for one small pizza and one large pizza, each with one extra topping?
12	Subtract one and a half from eight.
13	Look at your answer sheet. Put a ring around the number that is closest to one.
14	Two angles of a triangle are fifty degrees each. What is the third angle of the triangle?
15	What must be added to eight squared to make one hundred?

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

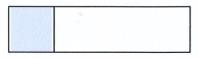|	
16	Look at your answer sheet. Add the five numbers together.
17	Sandwiches cost one pound fifty pence each. I buy six sandwiches. How much change do I get from ten pounds?
18	What is thirty-two multiplied by eight?
19	What number is exactly halfway between ten and negative twenty?
20	Look at your answer sheet. Put a ring around the *two* prime numbers in the list.

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

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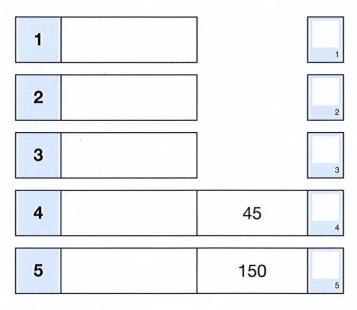# Key stage 2 mathematics 2012 mental mathematics test

First name		Middle name	
Last name		DfE number	
School name		Total marks	

Practice question

Time: 5 seconds

1			1

2			2

3			3

4		45		4

5		150		5

Time: 10 seconds

6		29 89		6

7	£	£1.25		7

8		9		8

9		m		9

10		25%		10

11			11

Pizza

small £6.00	medium £7.50	large £9.00
extra topping 50p		

£ _____

12			12

13	0.09 0.89 0.1 1.2 1.19		13

14	°	50°		14

15			15

Time: 15 seconds

16		30 40 50 60 70		16

17	£	£1.50		17

18			18

19			19

20	31 33 35 37 39		20

Sourced from www.11pluscentre.co.uk