

Ma

KEY STAGE

2

LEVELS

3-5

2005

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 12 May. Early opening, up to one hour before the test starts, is permissible only if papers are needed for administrative purposes.

Mathematics tests

# Mental mathematics test

Audiotape/CD transcript

This booklet contains a transcript of the key stage 2 mental mathematics test. It should be used **ONLY** in cases of audiotape or CD failure or for specific special arrangements outlined in the *2005 Assessment and reporting arrangements* booklet for key stage 2.

2005



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# Notes for teacher-read version

## Instructions

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

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. 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	What is double thirty-four?
2	Subtract twenty-one from one hundred.
3	What is four multiplied by nine?
4	What is seven-tenths as a percentage?
5	Write half a million in figures.

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

6	Look at your answer sheet. Circle the lowest temperature.
7	How many centimetres are there in half a metre?
8	What is the remainder when twenty-seven is divided by five?
9	Look at the table on your answer sheet. How much more does a pen cost than a pencil?
10	Add together nought point two, nought point four and nought point six.
11	A packet of crisps costs thirty-two pence. Josh buys three packets. How much change does he get from one pound?
12	Look at your answer sheet. Estimate the size of angle $x$ .
13	Six times a number is three thousand. What is the number?
14	How many millilitres are there in one and a quarter litres?
15	What is thirty times forty times ten?

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

16	Add together twenty-three and forty-eight.
17	Four biscuits cost twenty pence altogether. How much do twelve biscuits cost?
18	What number is exactly halfway between one point one and one point two?
19	Write two factors of twenty-four which add to make eleven.
20	Multiply thirty-nine by seven.

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

# Key stage 2 mathematics 2005 mental mathematics test

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

School .....

Total marks

## Practice question

--	--

### Time: 5 seconds

1	
---	--

2	
---	--

3		9
---	--	---

4		%
---	--	---

5	
---	--

1
2
3
4
5

### Time: 10 seconds

6	2°C	-5°C	5°C
	0°C	-1°C	

7	cm
---	----

8		5
---	--	---

9	Prices	
	pen	£1.20
	ruler	£0.75
	pencil	£0.55
	p	

6
7
8
9

10	
----	--

11	p	32p
----	---	-----

12	
----	--

13	
----	--

14	ml
----	----

15		30	40
----	--	----	----

### Time: 15 seconds

16		23
----	--	----

17	p
----	---

18	
----	--

19	..... and .....
----	-----------------

20		39
----	--	----

10
11
12
13
14
15
16
17
18
19
20

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 is twenty take away three?*

Repeat the question.

*What is twenty take away three?*

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 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 children to put down their pens or pencils, then collect their answer sheets.

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# Mathematics tests

## Subject-specific guidance

### Mental mathematics (lower tier)

Test C (lower tier)
20 minutes

#### Key points

- Each tape or CD includes both the instructions to the pupils and the questions. The full text of these instructions and the practice question is overleaf.
- There are two occasions to stop the recording, which are indicated by a bleep:
  - the first point comes at the beginning of the recording once the instructions have been given;
  - the second comes after the practice question.

You should explain to pupils that these two occasions will be their only opportunity to ask any questions before the test starts.

**You must not stop the recording at any other point, or add any additional instructions of your own.**

If you are using the CD version of the test, you should use the pause button to stop the recording.

- The recorded test will tell pupils how long they have to answer each question. The test is in three sections and the time given will increase from 5, to 10, to 15 seconds as the test progresses.
- You should ensure that pupils who were entered for tier 3–5 take mental mathematics test C. Pupils who were entered for tiers 4–6, 5–7 or 6–8 must be entered for test A or B.
- You should ensure that each pupil has a pen or pencil. They must not have rubbers, rulers, calculators or any other mathematical equipment. Pupils must not have access to paper for working out answers.
- You should ensure that pupils write their name and the name of the school in the spaces provided on their pupil answer sheet.

#### Transcript of audiotape/CD

The transcript of test C is provided in the *Mental mathematics – Audiotape/CD transcript* booklet. The transcript should only be used in the event of audiotape or CD failure.

#### Questions that must not be enlarged

If your school needs to enlarge questions or parts of questions to meet the specific requirements of individual pupils, and has not ordered the enlarged papers from the Modified Test Agency, the following question must **not** be enlarged. This is because enlargement may affect the pupils' responses.

Test C
Question 22

## **Transcript of the introduction to the test and practice question**

The following transcript is the introduction to test C which is included at the beginning of the tape and CD, before the questions.

*Listen carefully to the instructions I am going to give you. When I have finished, your teacher will stop the recording and (I\*) will answer any questions. However, you will not be able to ask any questions once the test has begun.*

*I will start with a practice question. Then I am going to ask you 30 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.*

Your teacher will now stop the recording and (I will now\*) answer any questions you might have.

(BLEEP)

*Here is the practice question to show you what to do. I will read the question twice, and you will have five seconds to work out the answer and write it in the answer box.*

*Add twenty to the number on your answer sheet.*

{The question is repeated}

*Add twenty to the number on your answer sheet.*

{Five-second pause}

(BLEEP)

{The 30 questions then follow on the audiotape or CD}

\*indicates words to be read aloud in the event of using the transcript.