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KEY STAGE

2

LEVELS

3–5

Mathematics tests

Mathematics mark schemes

Paper 1, Paper 2 and
mental mathematics

2015

National curriculum tests

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Introduction

The Standards and Testing Agency (STA) is responsible for the development and delivery of statutory tests and assessments. STA is an executive agency of the Department for Education.

This booklet contains the mark schemes for the assessment of levels 3–5 mathematics. Level threshold tables will be available at www.gov.uk/sta from Tuesday 7 July, 2015.

The levels 3–5 mathematics test is made up of 3 papers. A total of 100 marks is available.

- **Paper 1** and **Paper 2** (40 marks each)
- **Mental mathematics paper** (20 marks)

Calculators cannot be used by any pupils sitting the levels 3–5 mathematics test.

As in previous years, external markers will mark the key stage 2 national curriculum tests. The mark schemes are made available to teachers after the tests have been taken.

The mark schemes were written and developed alongside the questions. Pupils' responses from trialling have been added as examples to the mark schemes to ensure they reflect how pupils respond to the questions. The mark schemes indicate the criteria on which judgements should be made. In applying these principles, markers use professional judgement based on the training they have received.

The mathematics test mark schemes

The marking information for each question is set out in the form of tables, which start on page 8 of this booklet.

The '**Question**' column on the left-hand side of each table provides a quick reference to the question number and the question part.

The '**Requirement**' column may include 2 types of information:

- a statement of the requirements for the award of each mark, with an indication of whether credit can be given for correct working
- examples of some different types of correct response.

The '**Mark**' column indicates the total number of marks available for each question part. On some occasions the symbol (U1) may be shown in the 'Mark' column. The 'U' indicates that there is a Using and applying mathematics element in the question. The number, 1, shows the number of marks attributed to Using and applying mathematics in this question.

The '**Additional guidance**' column indicates alternative acceptable responses, and provides details of specific types of response which are unacceptable. Other guidance, such as the range of acceptable answers, is provided as necessary.

Additionally, for the mental mathematics test, general guidance on marking is given on page 20, followed by the marking information for each question.

Applying the mark schemes

To ensure consistency of marking, the most frequent queries about applying the mark schemes are listed on pages 4 and 5 along with the action the marker will take. This is followed by further guidance on pages 6 and 7 relating to the marking of questions that involve money, time and other measures. Unless otherwise specified in the mark schemes, markers will apply the following guidelines in all cases.

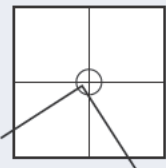
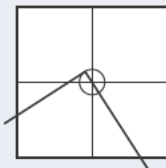
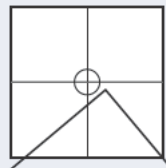
General guidance in marking the levels 3–5 mathematics tests

What if...	Marking procedure
The pupil's response is numerically or algebraically equivalent to the answer in the mark scheme.	Markers will award the mark unless the mark scheme states otherwise.
The pupil's response does not match closely any of the examples given.	Markers will use their judgement in deciding whether the response corresponds with the statement of the requirements given in the 'Requirement' column. Reference will also be made to the 'Additional guidance' column and, if there is still uncertainty, markers will contact the supervising marker.
The pupil has responded in a non-standard way.	Calculations, formulae and written responses do not have to be set out in any particular format. Pupils may provide evidence in any form as long as its meaning can be understood. Diagrams, symbols or words are acceptable for explanations or for indicating a response. Any correct method of setting out working, however idiosyncratic, will be accepted.
There appears to be a misreading affecting the working.	This is when the pupil misreads the information given in the question and uses different information without altering the original intention or difficulty level of the question. For each misread that occurs, 1 mark only will be deducted. In 1-mark questions – 0 marks are awarded. In 2-mark questions that have a method mark – 1 mark will be awarded if the correct method is correctly implemented with the misread number.
No answer is given in the expected place, but the correct answer is given elsewhere.	Where a pupil has shown understanding of the question, the mark(s) will be given. In particular, where a word or number response is expected, a pupil may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.
The pupil's answer is correct but the wrong working is shown.	A correct response will always be marked as correct.
The response in the answer box is wrong, but the correct answer is shown in the working.	<p>Where appropriate, detailed guidance will be given in the mark scheme, which markers will follow. If no guidance is given, markers will examine each case to decide whether:</p> <ul style="list-style-type: none"> ■ the incorrect answer is due to a transcription error ■ the pupil has continued to give redundant extra working which does not contradict work already done ■ the pupil has continued to give redundant extra working which does contradict work already done.

If so, the mark **will** be awarded.

If so, the mark **will** be awarded.

If so, the mark **will not** be awarded.

What if...	Marking procedure
The correct response has been crossed out and not replaced.	Any legible crossed-out work that has not been replaced will be marked according to the mark schemes. If the work is replaced, then crossed-out work will not be considered.
More than 1 answer is given.	If all answers are correct (or a range of answers is given, all of which are correct), the mark will be awarded unless prohibited by the mark schemes. If both correct and incorrect responses are given, no mark will be awarded.
The answer is correct but, in a later part of the question, the pupil has contradicted this response.	A mark given for 1 part will not be disallowed for working or answers given in a different part, unless the mark scheme specifically states otherwise.
The pupil has drawn lines which do not meet at the correct point.	<p>Markers will interpret the phrase 'slight inaccuracies in drawing' to mean 'within or on a circle of radius 2mm with its centre at the correct point'.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>within the circle accepted</p> </div> <div style="text-align: center;">  <p>on the circle accepted</p> </div> <div style="text-align: center;">  <p>outside the circle not accepted</p> </div> </div>

Recording marks awarded

Marking will take place on screen with markers viewing scanned images of pupils' scripts. Marks should be entered into the marking system in accordance with the guidance for the on-screen marking software.

Further details on recording marks and the use of the on-screen system will be given at marker training.

For multiple-mark questions, markers will record the award 2, 1 or 0 as appropriate, according to the mark-scheme criteria. There will be provision in the software to record questions not attempted.

The software will aggregate mark totals automatically.

Marking specific types of question: summary of additional guidance

Responses involving money

	Accept	Do not accept
<p>Where the £ sign is given for example: £3.20, £7</p> <div style="border: 1px solid black; width: 40px; height: 20px; display: flex; align-items: center; justify-content: center;">£</div>	<p>£3.20 £7 £7.00</p> <p>Any unambiguous indication of the correct amount, eg:</p> <p>£3.20p £3 20 pence £3 20 £3,20 £3-20 £3:20</p>	<p>Incorrect placement of pounds or pence, eg:</p> <p>£320 £320p</p> <p>Incorrect placement of decimal point, or incorrect use or omission of 0, eg:</p> <p>£3.2 £3 200 £32 0 £3-2-0</p>
<p>Where the p sign is given for example: 40p</p> <div style="border: 1px solid black; width: 40px; height: 20px; display: flex; align-items: center; justify-content: center;">p</div>	<p>40p</p> <p>Any unambiguous indication of the correct amount, eg</p> <p>£0.40p</p>	<p>Incorrect or ambiguous use of pounds or pence, eg:</p> <p>0.40p £40p</p>
<p>Where no sign is given for example: £3.20, 40p</p> <div style="border: 1px solid black; width: 40px; height: 20px;"></div>	<p>£3.20 40p 320p £0.40</p> <p>Any unambiguous indication of the correct amount, eg:</p> <p>£3.20p £0.40p £3 20 pence £.40p £3 20 £.40 £3,20 40 £3-20 0.40 £3:20 3.20 320 3 pounds 20</p>	<p>Incorrect or ambiguous use of pounds or pence, eg:</p> <p>£320 £40 £320p £40p £3.2 0.4 3.20p 0.40p</p>

Responses involving time

	Accept	Do not accept
A time interval for example: 2 hours 30 minutes	2 hours 30 minutes Any unambiguous, correct indication, eg: $2\frac{1}{2}$ hours 2.5 hours 2h 30 2h 30 min 2 30 150 minutes 150 Digital electronic time, ie 2:30	Incorrect or ambiguous time interval, eg: 2.30 2-30 2,30 230 2.3 2.3 hours 2.3h 2h 3 2.30 min
A specific time for example: 8:40am, 17:20	8:40am 8:40 twenty to nine Any unambiguous, correct indication, eg: 08.40 8.40 0840 8 40 8-40 8,40 Unambiguous change to 12- or 24-hour clock, eg: 17:20 as 5:20pm or 17:20pm	Incorrect time, eg: 8.4am 8.40pm Incorrect placement of separators, spaces, etc or incorrect use or omission of 0, eg: 840 8:4:0 8.4 084

Responses involving measures


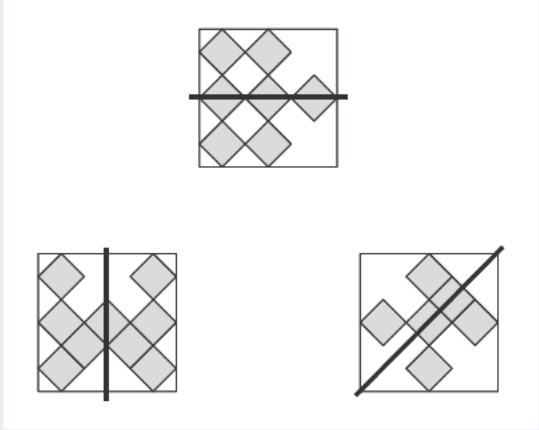
	Accept	Do not accept
Where units are given (eg: kg, m, l) for example: 8.6kg <div style="border: 1px solid black; display: inline-block; padding: 2px 10px; margin-top: 5px;">kg</div>	8.6kg Any unambiguous indication of the correct measurement, eg: 8.60kg 8.6000kg 8kg 600g	Incorrect or ambiguous use of units, eg 8600kg

Note

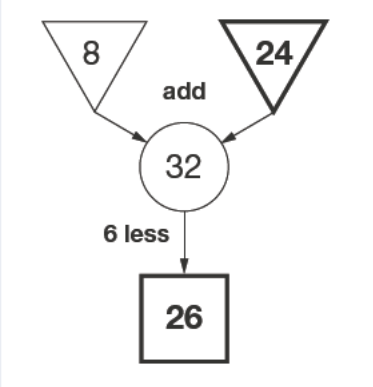
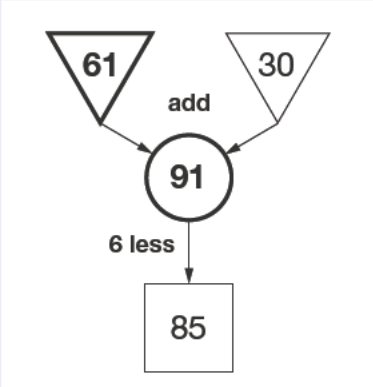

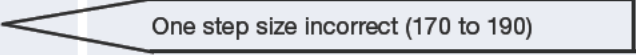
If a pupil leaves the answer box empty but writes the answer elsewhere on the page, then that answer must be consistent with the units given in the answer box and the conditions listed above.

If a pupil changes the unit given in the answer box, then their answer must be equivalent to the correct answer using the unit they have chosen, unless otherwise indicated in the mark schemes.

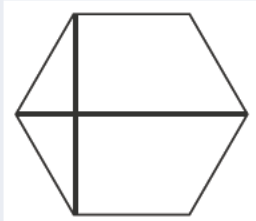

Paper 1

Question	Requirement	Mark	Additional guidance
1	<p>Award TWO marks for four names correctly placed on the diagram as shown:</p>  <p>If the answer is incorrect, award ONE mark for three names correctly placed.</p>	Up to 2m	<p>Accept unambiguous abbreviations or recognisable misspellings.</p> <p>Do not accept names written in more than one section.</p>
2	<p>Number circled as shown:</p> <p>525 491 511 408 550</p>	1m	Accept alternative unambiguous indications, eg number ticked, crossed or underlined.
3	3404	1m	
4	<p>Award TWO marks for three lines of symmetry drawn correctly as shown:</p>  <p>If the answer is incorrect, award ONE mark for two lines of symmetry correctly drawn.</p>	Up to 2m	Accept inaccurate drawing provided the intention is clear.
5a	35	1m	The answer is a time interval (see page 7 for guidance).
5b	4:15	1m	The answer is a specific time (see page 7 for guidance).

Paper 1

Question	Requirement	Mark	Additional guidance
6a	Diagrams completed correctly as shown: 	1m	
6b		1m	
7	Award TWO marks for the correct answer of 290 If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: <ul style="list-style-type: none"> ■ 110 140 170 200 230 260 290 320 OR ■ 110 140 170 190 220 250 280 310 OR ■ $300 + 20 = 320$ $320 - 30 = \text{wrong answer}$ 	Up to 2m	Working must be carried through to reach an answer for the award of ONE mark. <div style="margin-top: 10px;"> U1 </div> <div style="margin-top: 10px;">  </div> <div style="margin-top: 10px;">  </div>
8a	63	1m	
8b	5	1m	

Paper 1

Question	Requirement	Mark	Additional guidance
9a	£7	1m	Accept an answer in the range £6.75 to £7.25 inclusive.
9b	4	1m	Do not accept a list of classes.
10a	Award TWO marks for the correct answer of £7.05 If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: ■ $£20 - £5.45 - £7.50 =$ wrong answer OR ■ $£5.45 + £7.50 = £12.95$ $£20 - £12.95 =$ wrong answer	Up to 2m	Accept for ONE mark £705 OR £705p as evidence of appropriate working. Working must be carried through to reach an answer for the award of ONE mark.
10b	15	1m	
11a	$X = 125$	1m	
11b	$Y = -75$	1m	Do not accept 75–
12a	Answer in the range 65mm to 69mm inclusive .	1m	
12b	Answer in the range 123° to 127° inclusive .	1m	
13	Diagram completed as shown:  OR 	1m U1	Accept slight inaccuracies in drawing, provided the intention is clear. Diagrams may be completed in any orientation.
14	83.6	1m	

Paper 1

Question	Requirement	Mark	Additional guidance				
15	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>6</td><td>1</td></tr></table> - <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>2</td><td>7</td></tr></table> = 34	6	1	2	7	1m U1	
6	1						
2	7						
16	50p 20p 10p 10p 10p	1m U1	Coins may be given in any order.				
17a	1974 OR 1975 OR 1976	1m					
17b	A whole number answer in the range 130000 to 180000 inclusive .	1m					
17c	A whole number answer in the range 510000 to 550000 exclusive .	1m	Do not accept 510000 OR 550000				
18	352	1m	Do not accept 352%				
19	Award TWO marks for the correct answer of 75 If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: <ul style="list-style-type: none"> ■ $125 \div 50 = 2.5$ $2.5 \times 30 = \text{wrong answer}$ OR <ul style="list-style-type: none"> ■ 50g oats 30g raisins 25g oats 15g raisins ($\div 2$) 125g oats wrong answer ($\times 5$) 	Up to 2m	Working must be carried through to reach an answer for the award of ONE mark.				
20a	56	1m					
20b	34	1m	If the answers to a and b are incorrect, award ONE mark if their a plus their b = 90° , provided that b is not 45° , 30° or 60° .				

Paper 1

Question	Requirement	Mark	Additional guidance
21	<p>Two numbers with a difference of 2, in the range 48 inclusive to 52 exclusive eg:</p> <ul style="list-style-type: none"> ■ 48 AND 50 <p>OR</p> <ul style="list-style-type: none"> ■ 51.9 AND 49.9 <p>OR</p> <p>any pair of numbers that differ from those above by a multiple of 100 and have a difference of 2, eg:</p> <ul style="list-style-type: none"> ■ 149 AND 151 <p>OR</p> <ul style="list-style-type: none"> ■ 648 AND 650 	<p>1m</p> <p>U1</p>	<p>Numbers can be given in either order.</p>
22	38	1m	
23	<p>A counter-example or an explanation that shows Alfie is incorrect, eg:</p> <ul style="list-style-type: none"> ■ 'It doesn't work when one of the numbers is 1' ■ '$1 \times 99 = 99$, and 99 is not less than 99' ■ 'It's not true for zero' ■ '$0 \times 5 = 0$, and 0 is less than 5' ■ 'It doesn't work for fractions less than 1' ■ '$0.5 \times 8 = 4$, and 4 is less than 8' ■ 'If one number is negative and the other is positive, the answer is negative' 	<p>1m</p> <p>U1</p>	<p>No mark is awarded for circling 'No' alone.</p> <p>Do not accept vague or incomplete explanations, eg:</p> <ul style="list-style-type: none"> ■ 'It's not always true' ■ 'It doesn't work when one of the numbers is small' <p>If 'Yes' is circled but a correct, unambiguous explanation is given then award the mark.</p>
24	<p>Award TWO marks for the correct answer of 55p OR £0.55</p> <p>If the answer is incorrect, award ONE mark for evidence of appropriate working, eg</p> <ul style="list-style-type: none"> ■ $£2.35 - £1.25 = £1.10$ ■ $£1.10 \div 2 =$ wrong answer 	<p>Up to 2m</p> <p>U1</p>	<p>Accept for ONE mark £55 OR £55p OR 0.55p as evidence of appropriate working.</p> <p>Working must be carried through to reach an answer for the award of ONE mark.</p>

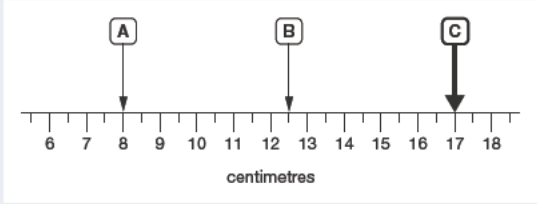
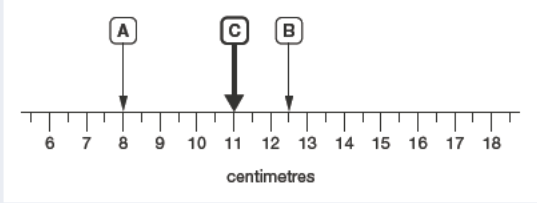
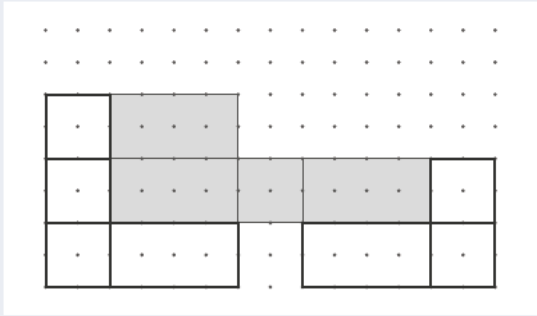
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Paper 2

Question	Requirement	Mark	Additional guidance					
1	89	1m						
2	Temperatures in ascending order, as shown: –24°C –13°C 0°C 21°C 35°C	1m						
3a	£3.48	1m	Accept for ONE mark £110 OR £110p as evidence of appropriate working. Working must be carried through to reach an answer for the award of ONE mark.					
3b	Award TWO marks for the correct answer of £1.10 If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: ■ $£1.80 + 30p = £2.10$ $60p + 40p = £1.00$ $£2.10 - £1.00 = \text{wrong answer}$	Up to 2m						
4	Award TWO marks for three numbers correct as shown: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 2px 10px;">19</td> <td style="padding: 2px 10px;">38</td> <td style="padding: 2px 10px;">76</td> <td style="padding: 2px 10px;">152</td> <td style="padding: 2px 10px;">304</td> </tr> </table> If the answer is incorrect, award ONE mark for two numbers correct.	19	38	76	152	304	Up to 2m	
19	38	76	152	304				
5	2 AND 4	1m	Accept alternative unambiguous indications, eg right angles marked on diagrams.					
6a	5	1m						
6b	45	1m						
7	Award TWO marks for the correct answer of A AND E If the answer is incorrect, award ONE mark for: ■ both letters correct and not more than one incorrect ■ A only (and no other letters) ■ E only (and no other letters)	Up to 2m	Letters may be given in either order. Accept alternative unambiguous indications, eg tiles ticked or circled.					

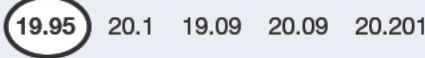
Paper 2

Question	Requirement	Mark	Additional guidance
8a	$4\frac{1}{2}$ OR 4.5	1m	
8b	A point marked on the line at either 17cm OR 11cm, ie  OR 	1m U1	The mark need not touch the line provided the intention is clear. The marked point need not be labelled.
9a	Rectangle (oblong) drawn in one of the correct positions as shown in diagram below:	1m	
9b	Square drawn in one of the correct positions as shown in diagram below: 	1m	Only accept a square that is joined to the side of an adjacent rectangle (oblong).
10a	Any two triangles in the shape shaded.	1m	Accept alternative unambiguous indications.
10b	Any two more triangles in the shape shaded.	1m	Accept alternative unambiguous indications.
11a	14	1m	
11b	$\frac{1}{3}$	1m	Accept equivalent fractions eg $\frac{7}{21}$ Ignore subsequent work if $\frac{7}{21}$ is simplified incorrectly. Accept follow through in part b of $\frac{7}{a+7}$

Paper 2

Question	Requirement	Mark	Additional guidance
12	<p>Award TWO marks for the correct answer of 60</p> <p>If the answer is incorrect, award ONE mark for evidence of appropriate working, eg:</p> <ul style="list-style-type: none"> ■ Ate 10, gave away 5 Ate 40, gave away 20 Ate $40 + 20 =$ wrong answer ■ $40 \div 10 = 4$ $4 \times 5 = 20$ $20 + 40 =$ wrong answer 	<p>Up to 2m</p> <p>U1</p>	<p>Working must be carried through to reach an answer for the award of ONE mark.</p>
13	<p>Award TWO marks for the correct answer as shown:</p> <p style="text-align: center;"> <input type="text" value="51"/> <input type="text" value="52"/> <input type="text" value="50"/> <input type="text" value="48"/> <input type="text" value="49"/> </p> <p>If the answer is incorrect, award ONE mark for 4 true statements with no number repeated (within those 4), eg:</p> <p style="text-align: center;"> <input type="text" value="48"/> OR <input type="text" value=""/> (blank) <input type="text" value="52"/> <input type="text" value="52"/> <input type="text" value="50"/> <input type="text" value="50"/> <input type="text" value="51"/> <input type="text" value="48"/> <input type="text" value="49"/> <input type="text" value="49"/> </p>	<p>Up to 2m</p> <p>U1</p>	<p>Do not accept numbers other than those given.</p> <p>(Multiple of 3 can be 48 OR 51)</p> <p>(Multiple of 4 can be 48 OR 52)</p>
14	13	1m	
15	350	1m	

Paper 2

Question	Requirement	Mark	Additional guidance
16a	7	1m	
16b	8	1m	
17a	38	1m	The answer is a time interval (see page 7 for guidance).
17b	10:21	1m	The answer is a specific time (see page 7 for guidance).
17c	10:58	1m	
18	Number circled as shown: 	1m	Accept alternative unambiguous indications, eg number ticked, crossed or underlined.
19	<p>Award TWO marks for the correct answer of 26</p> <p>If the answer is incorrect award ONE mark for evidence of appropriate working which contains not more than ONE arithmetical error, eg:</p> <ul style="list-style-type: none"> Long divisional algorithm $\begin{array}{r} \text{wrong answer} \\ 36 \overline{) 936} \\ \underline{-720} \\ 216 \\ \underline{-216} \\ 0 \end{array}$ Short division algorithm $\begin{array}{r} \text{wrong answer} \\ 36 \overline{) 93^{21}6} \end{array}$ Repeated addition/subtraction methods, eg $\begin{array}{r} 936 \\ \underline{-360} \quad 10 \times 36 \\ 576 \\ \underline{-360} \quad 10 \times 36 \\ 216 \\ \underline{-216} \quad 6 \times 36 \\ \text{wrong answer} \end{array}$ Factorisation methods, eg $936 \div 9 = 104$ $104 \div 4 = \text{wrong answer}$ 	Up to 2m	<p>Working must be carried through to reach an answer for the award of ONE mark.</p> <p>In all cases, accept follow-through of ONE error in working.</p> <p>Variations on algorithms are acceptable, provided they represent a viable and complete method.</p> <p>Do not award any marks if the final answer is missing.</p> <p>Short division methods must be supported by evidence of appropriate carrying figures to indicate use of division algorithm and be a complete method.</p> <p>No mark is awarded for addition/subtraction the wrong number of times.</p>

Paper 2

Question	Requirement	Mark	Additional guidance
20	<p>Award TWO marks for the correct answer of 72</p> <p>If the answer is incorrect, award ONE mark for evidence of appropriate working, eg</p> <ul style="list-style-type: none"> ■ $13 \times 4 = 52$ ■ $5 \times 4 = 20$ ■ $52 + 20 = \text{wrong answer}$ 	Up to 2m	Working must be carried through to reach an answer for the award of ONE mark.
21	<p>Award TWO marks for the sequence completed correctly as shown:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">$2\frac{1}{2}$</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">4</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">$5\frac{1}{2}$</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">7</div> </div> <p>If the answer is incorrect, award ONE mark for two numbers correct.</p>	Up to 2m	
22	(50, 15)	1m	
23	<p>An explanation which recognises that they are equally likely to choose a blue counter, eg:</p> <ul style="list-style-type: none"> ■ 'Half the counters in each bag are blue' ■ '5 out of 10 is the same as 10 out of 20' ■ 'Chen has twice as many blue counters but he also has twice as many counters altogether, so the chance is the same'. 	<p>1m</p> <p style="text-align: center;">(U1)</p>	<p>No mark is awarded for circling 'No' alone.</p> <p>Do not accept vague or incomplete explanations, eg:</p> <ul style="list-style-type: none"> ■ 'There is an equal chance' ■ 'If Chen has 10 blue and Megan has 5'. <p>If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.</p>

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Mark scheme for the mental mathematics test

Applying the mark scheme

Please note that pupils will not be penalised if they record any information given in the question or show their working. External markers will ignore any annotation, even if in the answer space, and mark only the answer. External markers will accept an unambiguous answer written in the stimulus box, or elsewhere on the page.

Full mark scheme information is given on page 22. In addition, a 'quick reference' mark scheme is provided on page 21. This is presented in a similar format to the pupils' answer sheet.

General guidance

The general guidance for marking the written tests also applies to marking the mental mathematics test. In addition, the following principles apply.

1. Unless stated otherwise in the mark scheme, accept answers written in words, or a combination of words and figures.
2. Where units are specified, they are given on the answer sheet. Pupils are not penalised for writing in the units again.
3. Where answers are required to be ringed, do not accept if more than 1 answer is ringed, unless it is clear which is the pupil's intended answer. Accept also any other way of indicating the correct answer, eg underlining.

2015 mental mathematics

Quick reference mark scheme

Practice question

--	--

Time: 5 seconds

1	84	
---	----	--

2	12	
---	----	--

3	50	
---	----	--

4	35 mins	11:25	
---	---------	-------	--

5	100 g	
---	-------	--

11	10	
----	----	--

12	0.35	
----	------	--

13	42	40	
----	----	----	--

14	1.8	
----	-----	--

15	750000	
----	--------	--

Time: 10 seconds

6	£3.20	£6.80	
---	-------	-------	--

7	27	18	
---	----	----	--

8	900	
---	-----	--

9	0.1	0.3	0.5	
	(0.7)	0.9		

10	22	
----	----	--

Time: 15 seconds

16	110	5	
----	-----	---	--

17	4 cm	30cm	
----	------	------	--

18	486	540	
----	-----	-----	--

19	£12.00	£2.40	
----	--------	-------	--

20	8	
----	---	--

Mental mathematics: Questions 1–20

Question	Requirement	Mark	Additional guidance
1	84	1m	
2	12	1m	
3	50	1m	
4	35	1m	
5	100	1m	
6	£3.20	1m	
7	27	1m	
8	900	1m	
9	0.1 0.3 0.5 0.7 0.9	1m	
10	22	1m	
11	10	1m	Accept $\frac{10}{4}$
12	0.35	1m	
13	42	1m	
14	1.8	1m	
15	750 000	1m	
16	110	1m	
17	4cm	1m	
18	486	1m	
19	£12.00	1m	
20	8	1m	

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