Ma

KEY STAGE

Mathematics tests

3-5

# Mathematics mark schemes

Paper 1, Paper 2 and mental mathematics

National curriculum assessments

# Introduction

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

This booklet contains the mark schemes for the assessment of levels 3–5 mathematics. Level threshold tables will be available at <a href="https://www.education.gov.uk/ks2">www.education.gov.uk/ks2</a> from Tuesday 8 July, 2014.

The levels 3–5 mathematics test is made up of three papers and contains a total of 100 marks.

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

From 2014 calculators can no longer be used by any children sitting the levels 3–5 mathematics test. Calculators are still permitted in paper 2 of the level 6 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. Children's responses from trialling have been added as examples to the mark schemes to ensure they reflect how children 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 two 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 18, 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 child's response is numerically or algebraically equivalent to the answer in the mark scheme.	Markers will award the mark unless the mark	k scheme states otherwise.	
The child'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 child has responded in a non-standard way.	Calculations, formulae and written responses do not have to be set out in any particular format. Children 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 child 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, one mark only will be deducted. In one-mark questions – 0 marks are awarded. In two-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 child has shown understanding of the question, the mark(s) will be given. In particular, where a word or number response is expected, a child may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.		
The child's answer is correct but the wrong working is shown.	A correct response will always be marked as	s correct.	
The response in the answer box is wrong, but the correct answer is shown in the working.	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:  the incorrect answer is due to a transcription error  the child has continued to give redundant extra working which does not contradict work already done  the child has continued to give redundant extra working which does contradict work already done.	If so, the mark <b>will</b> be awarded.  If so, the mark <b>will</b> be awarded.  If so, the mark <b>will not</b> 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 one 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 one part will not be disallowed for working or answers given in a different part, unless the mark schemes specifically states otherwise.			
The child has drawn lines which do not meet at the correct point.	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'.  within the circle accepted on the circle accepted outside the circle not accepted			

### Recording marks awarded on the test paper

In the margin there is a marking space alongside each question part.

For the mental mathematics test, the external marker will record '1' for a correct response or '0' otherwise.

For the written tests, the external marker will record one of the following in each marking space:

- '1' for a correct response
- '0' for an incorrect response
- '-' if no response is made.

A two-mark question which is correct will have '1' entered in both marking spaces. A two-mark question which is incorrect, but which has sufficient evidence of working or method as required by the mark scheme, will have '1' entered in the first marking space and '0' in the second. Otherwise '0' will be entered in both marking spaces, unless no response is made, in which case '-' will be entered in both marking spaces.

For the written tests, the total number of marks gained on each double page will be written in the space at the bottom of the right-hand page. For all of the tests, the total number of marks gained on each paper will be recorded on the front of the test paper.

# Marking specific types of question – summary of additional guidance

## Responses involving money

	Accept	Do not accept
Where the £ sign is given for example: £3.20, £7	£3.20 £7 £7.00  Any unambiguous indication of the correct amount, eg: £3.20p £3.20 pence £3.20 £3.20 £3.20 £3.20 £3.20	Incorrect placement of pounds or pence, eg: £320 £320p Incorrect placement of decimal point, or incorrect use or omission of 0, eg: £3.2 £3 200 £32 0 £3-2-0
Where the p sign is given for example: 40p	40p Any unambiguous indication of the correct amount, eg £0.40p	Incorrect or ambiguous use of pounds or pence, eg: 0.40p £40p
Where no sign is given for example: £3.20, 40p	£3.20 40p  320p £0.40  Any unambiguous indication of the correct amount, eg:  £3.20p £0.40p  £3.20 £0.40p  £3.20 £0.40p  £3.20 £0.40  £3.20 0.40  £3.20 0.40  £3.20 0.40  £3.20 3.20  3 pounds 20	Incorrect or ambiguous use of pounds or pence, eg:  £320 £40 £320p £40p £3.2 0.4 3.20p 0.40p

## 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}\text{ 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	8.6kg Any unambiguous indication of the correct measurement, eg:	Incorrect or ambiguous use of units, eg
kg	8.60kg 8.6000kg 8kg 600g	

### Note

If a child 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 child 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: Calculator not allowed

Question	Requirement		Mark	Additional guidance
1	С		1m	Accept alternative unambiguous indications, eg correct shape ticked or circled.
2a	570 in the first box.		1m	
2b	730 in the last box		1m	
3a	blue <b>AND</b> white		1m	Colours may be given in either order.
3b	600		1m	Accept unambiguous abbreviations or recognisable misspellings.
3c	75		1m	
4a	13		1m	The answer is a time interval (see page 7 for guidance).
4b	11:10		1m	The answer is a specific time (see page 7 for guidance).
5	Award <b>TWO</b> marks for as shown:	r all three numbers correct	Up to 2m	
	× 8 5	7		
	4 <b>32</b> 20	28		
	5 40 25	05		
	5 40 <b>25</b>	35		
	3 24 15	21		
	If the answer is incorretwo numbers correct.	ect, award <b>ONE</b> mark for		
6a	C AND E		1m	Letters may be given in either order.
6b	В		1m	
7	Award <b>TWO</b> marks for	r the correct answer of 18	Up to 2m	
	If the answer is incorre evidence of appropriate	ect, award <b>ONE</b> mark for te working, eq:		Accept for <b>ONE</b> mark 0.18 as evidence of appropriate working.
	■ 100 – 64 = 36	3, 3		Working must be carried through to reach an
	$36 \div 2 = \text{wrong ans}$	swer		answer for the award of <b>ONE</b> mark.
8	Correct angle indicate	ed as shown:	1m	Accept alternative unambiguous indications, eg correct angle crossed or circled.

Paper 1: Calculator not allowed

Question	Requirement	Mark	Additional guidance
9	Award <b>TWO</b> marks for all four numbers correctly placed as shown:     Two-digit numbers   Three-digit numbers   Three-digit numbers	Up to 2m	Do not accept numbers written in more than one region.  Accept alternative unambiguous indications, eg lines drawn from the numbers to the appropriate regions of the diagram.
10a	2	1m	
10b	99	1m	
11a	6	1m	
11b	8	1m	
		(U1)	
12a	Wednesday	1m	Accept unambiguous abbreviations or recognisable misspellings.
12b	6	1m	Do not accept -6
13	Award <b>TWO</b> marks for the correct answer of 80p <b>OR</b> £0.80  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg:  £2.00 - £0.05 = £1.95 £5.00 - £2.25 = £2.75 £2.75 - £1.95 = wrong answer	Up to 2m	Accept for <b>ONE</b> mark £80 <b>OR</b> £80p <b>OR</b> 0.80p as evidence of appropriate working.  Working must be carried through to reach an answer for the award of <b>ONE</b> mark.

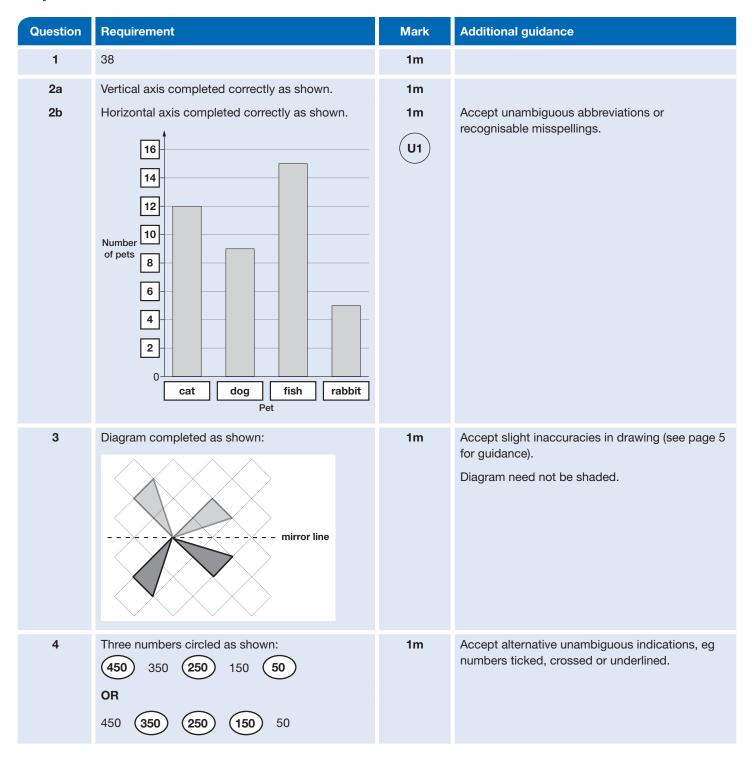
# Paper 1: Calculator not allowed

Question	Requirement	Mark	Additional guidance
14	Award <b>TWO</b> marks for all four boxes ticked or crossed correctly as shown:	Up to 2m	Accept alternative unambiguous indications eg Y or N.  For TWO marks accept:
15	Award <b>TWO</b> marks for the correct answer of 42  If the answer is incorrect award <b>ONE</b> mark for evidence of appropriate working, eg:  ■ 28 ÷ 4 = 7  7 × 6 = wrong answer  OR  ■ 28 ÷ 2 = 14  14 + 28 = wrong answer	Up to 2m	Working must be carried through to reach an answer for the award of <b>ONE</b> mark.
16	Award <b>TWO</b> marks for the correct answer of 24180  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working which contains no more than <b>ONE</b> arithmetical error, eg:  I long multiplication algorithm, eg  465  × 52  23250  930  wrong answer  grid method, eg  400 60 5  50 20000 3000 250  2 800 120 10  = wrong answer  partitioning method, eg  465 × 10 = 4650  465 × 20 = 9300  465 × 20 = 9300  465 × 2 = 930  wrong answer	Up to 2m	In all cases accept follow-through of <b>ONE</b> error in working. <b>Do not</b> award any marks if:  • the error is in the place value, eg the omission of the zero when multiplying by tens, eg  • 465  • 52  • 2325  • 930  • wrong answer  • the final (answer) line of digits is missing.  Variations on algorithms are acceptable, provided they represent viable and complete methods.  Working must be carried through to reach an answer for the award of <b>ONE</b> mark.

# Paper 1: Calculator not allowed

Question	Requirement	Mark	Additional guidance
17	Numbers in order, as shown:	1m	
	1.28 1.8 8.118 8.12 8.2		
18a	$6\frac{1}{4}$	1m	Accept equivalent fractions. <b>Do not</b> accept $5\frac{5}{4}$
18b	$1\frac{1}{2}$	1m	Accept equivalent fractions, eg $1\frac{2}{4}, \frac{3}{2}, 1.5, 150\%$
19	<ul> <li>An explanation which recognises that 10% of 55 is not a whole number, eg:</li> <li>10% of 55 is 5½, and you can't have 5½ people'</li> <li>'It wouldn't be a whole number of people'</li> <li>'No whole number out of 55 will give you 10%'</li> <li>'If it was 5 people, 5 out of 55 isn't 10%. 6 out of 55 isn't 10% either'</li> <li>'Because you can't have half a person.'</li> <li>'5½'</li> </ul>	1m (U1)	Do not accept vague or incomplete explanations, eg:  ■ 'You can't get 10% of 55'  ■ 'Some children write with both hands'.
20	Award <b>TWO</b> marks for the correct answer of 1.05kg  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg:  ■ 12 ÷ 4 = 3  350 × 3 = 1050  1050 ÷ 1000 = wrong answer	Up to 2m	Do not accept 1050g  Accept for ONE mark 10.5 or 105 as evidence of appropriate working.  Working must be carried through to reach an answer for the award of ONE mark.
21	2 AND 2 AND 7 OR 2 AND 2 AND -3	1m	Numbers may be given in any order.
22	Award <b>TWO</b> marks for four numbers correct as shown:  16 <b>AND</b> 17 <b>AND</b> 18 <b>AND</b> 19  If the answer is incorrect, award <b>ONE</b> mark for:  three numbers correct and none incorrect  OR  all four numbers correct and one incorrect	Up to 2m	Numbers may be given in any order.

Paper 2: Calculator not allowed



Paper 2: Calculator not allowed

Question	Requirement	Mark	Additional guidance
5a 5b	Award <b>TWO</b> marks for the correct answer of 24  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg:  ■ 77 − 18 − 35 = wrong answer <b>OR</b> ■ 35 + 18 = 53  77 − 53 = wrong answer	1m Up to 2m	Working must be carried through to reach an answer for the award of <b>ONE</b> mark.
<b>6</b> a	8 - 7 + 6 - 5 = 2	1m (U1)	
6b	8 + 7 - 6 - 5 = 4	1m	
7	20p 20p 20p 10p 10p 10p 10p	1m (U1)	Coins may be listed in any order.  Accept coins with missing units.
8a	Two numbers from the sequence that total 96, eg: 43 AND 53 OR 23 AND 73	1m	Numbers may be given in either order.  Accept negative numbers, eg –7 <b>AND</b> 103
8b	An explanation that recognises that adding three numbers ending in 3 will produce a number ending in a 9 eg:  'They all end in 3 so adding three will give a number ending in 9'  'If you add three numbers in the sequence you will always get a number ending in 9'  'All the numbers are odd and 96 is even'	1m (U1)	Do not accept vague or incomplete explanations, eg:  ■ 'All the numbers end in three'  ■ 'It only works with two numbers'  ■ '3 odds add to make an even'

Paper 2: Calculator not allowed

Question	Requirement	Mark	Additional guidance
9	Fractions connected correctly to decimals as shown: $\frac{3}{10} \qquad 0.03$ $\frac{3}{5} \qquad 0.06$ $\frac{3}{100} \qquad 0.3$	1m	
10	Award <b>TWO</b> marks for the correct answer of B <b>AND</b> C  If the answer is incorrect, award <b>ONE</b> mark for:  B only  OR  C only	Up to 2m	Letters may be given in either order.
11	24.56	1m	
12	Award <b>TWO</b> marks for all three values correct as shown: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Up to 2m	Accept alternative unambiguous indications, eg correct value filled in.
13	Award <b>TWO</b> marks for the diagram completed correctly as shown:  If the answer is incorrect, award <b>ONE</b> mark for three shapes positioned correctly.	Up to 2m	Accept inaccurate drawing, provided the intention is clear.  Orientation of the triangle must be unambiguous.  Dots need not be shaded.

Paper 2: Calculator not allowed

Question	Requirement	Mark	Additional guidance
14a	A 50 B 15 C 20 D 25	1m	
14b	A 110 B 45 C 50 D 55	1m (U1)	
15	Award <b>TWO</b> marks for a correct answer of 30  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg:  ■ 10% of 200 = 20  25% of 200 = 50  50 - 20 = wrong answer  OR  ■ 25% - 10% = 15%  15% of 200 = wrong answer	Up to 2m	Working must be carried through to reach an answer for the award of <b>ONE</b> mark.
16a 16b	<ul> <li>An explanation that recognises that 100 people get up before 9am which is two-thirds of the total (150).</li> <li>13 + 28 + 59 = 100 which is two-thirds of the total'</li> <li>13/3 of 150 = 50 and 2 × 50 = 100'</li> <li>2/3 of 150 is 100'</li> <li>36 + 14 = 50 which is one-third after 9am'</li> </ul>	1m 1m U1	Do not accept vague or incomplete explanations, eg:  ■ 'One-third are 9 o'clock or later'  ■ '100 got up at 9am'  ■ 'Twice as many got up before 9am.'  ■ '13 + 28 + 59 = 100'
17	Any two numbers which total 40, eg:  10 and 30  20 and 20  0 and 40  1 and 39	1m	Accept negative numbers and decimals.

# Paper 2: Calculator not allowed

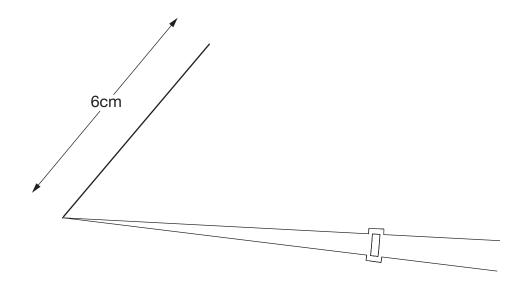
Question	Requirement	Mark	Additional guidance
18a	Accept answers in the range 22.2 to 22.8 exclusive.	1m	<b>Do not</b> accept 22.2 or 22.8
18b	Accept answers in the range 2:48pm to 2:52pm inclusive.	1m	The answer is a specific time (see page 7 for guidance).
18c	5	1m	
19	Award <b>TWO</b> marks for the correct answer of 45 <b>AND</b> 35  If the answer is incorrect, award <b>ONE</b> mark for:	Up to 2m	Numbers may be given in either order.  Working must be carried through to reach
	■ either 35 <b>OR</b> 45		an answer for the award of <b>ONE</b> mark.
	<ul> <li>OR</li> <li>■ evidence of appropriate working, eg</li> <li>80 - 10 = 70</li> <li>70 ÷ 2 = 35</li> <li>35 + 10 = wrong answer</li> </ul>		
20a	A is (12, 6)	1m	Coordinates must be given in the correct order.
20b	B is (19, 3)	1m	If the answer to 20a is (19, 3) <b>AND</b> the answer to 20b is (12, 6) then award <b>ONE</b> mark for 20b
			Accept unambiguous answers written on the diagram.
21	Award <b>TWO</b> marks for the correct answer of 15	Up to 2m	
	If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg:		Working must be carried through to reach an answer for the award of <b>ONE</b> mark.
	■ 61 ÷ 2 = 30.5		
	30.5 + 0.5 = 31		
	31 ÷ 2 = 15.5		
	15.5 – 0.5 = wrong answer		
	OR - 01 - 0 - 00 5		
	■ $61 \div 2 = 30.5$		
	30.5 - 0.5 = 30 (step error) $30 \div 2 = 15$		
	15 − 0.5 = 14.5 (wrong answer)		

Paper 2: Calculator not allowed

Question	Requirement	Mark	Additional guidance
22	Award <b>TWO</b> marks for a triangle drawn with an angle in the range 53° to 57° inclusive <b>AND</b> length of base line in the range 8.2cm to 8.4cm inclusive (ie lower vertex of the triangle within the inner box on the diagram, see overlay).  If the answer is incorrect, award <b>ONE</b> mark for:  a completed triangle drawn with an angle in the range 53° to 57° inclusive.  OR  a completed triangle drawn with an angle in the range 52° to 58° inclusive <b>AND</b> length of base line 8.1cm to 8.5cm inclusive.	Up to 2m	Accept drawings where any side has been extended past a vertex.  Accept drawings which do not use the given 6cm line, provided they have used a line with a length in the range 5.9cm to 6.1cm inclusive.  Accept for ONE mark drawings not using the given 6cm line which have used a line outside the range 5.9cm to 6.1cm inclusive, provided they have an angle in the range 53° to 57° inclusive AND a base line in the range 8.2cm to 8.4cm inclusive.  Accept for ONE mark drawings of incomplete triangles, provided they have an angle in the range 53° to 57° inclusive AND a base line in the range 8.2cm to 8.4cm inclusive.
23	3 AND 5 AND 7	1m	Numbers may be given in any order.

### Paper 2: question 22 copy of overlay

Markers will use a transparent overlay of this diagram to mark children's answers to question 22. The overlay is attached to the printed version of this mark scheme.



# Mark scheme for the mental mathematics test

## Applying the mark scheme

Please note that children 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 20. In addition, a 'quick reference' mark scheme is provided on page 19. This is presented in a similar format to the children's 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. Children are not penalised for writing in the units again.
- 3. Where answers are required to be ringed, do not accept if more than one answer is ringed, unless it is clear which is the child's intended answer. Accept also any other way of indicating the correct answer, eg underlining.

## 2014 mental mathematics

# Quick reference mark scheme

### **Practice question** Time: 5 seconds 0.12 0.21 0.4 (0.46) 0.55 cm Answer must be Do not accept equivalent in figures fractions cm Time: 15 seconds Time: 10 seconds 10.19 (4) 3pm 2.6 Accept $\frac{7}{2}$ 50p 60p

## Mental mathematics: Questions 1–20

Question	Requirement	Mark	Additional guidance
1	31	1m	
2	3020	1m	Answer must be in figures.
3	81	1m	
4	205	1m	
5	100cm	1m	
6	£10.19	1m	
7	3 pm	1m	The answer is a specific time (see page 7 for guidance).
8	9	1m	
9	7	1m	Accept $\frac{7}{2}$
10	50p	1m	
11	0.12 0.21 0.4 0.46 0.55	1m	Accept alternative unambiguous indications, eg number ticked, crossed or underlined.
12	24cm	1m	
13	<u>5</u>	1m	Do not accept equivalent fractions.
14	56	1m	
15	23	1m	
16	72	1m	
17	1 2 3 4 5 6	1m	Accept alternative unambiguous indications, eg number ticked, crossed or underlined.
18	2.6	1m	
19	180	1m	
20	60p	1m	



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