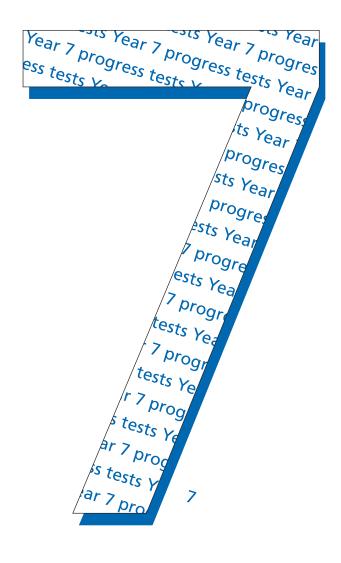


Year 7 progress test in mathematics

Mark schemes for Paper 1, Paper 2 and Mental mathematics







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Introduction

The test papers will be marked by external markers. The markers will apply the mark schemes in this booklet, which are provided here to inform teachers.

This booklet contains the mark schemes for Paper 1, Paper 2 and the mental mathematics test. Questions have been named so that each one has a unique identifier.

The structure of the mark schemes for Paper 1 and Paper 2

The marking information for questions in the written tests is set out in the form of tables, which start on page 13 (Paper 1) and page 25 (Paper 2) of this booklet. The two columns on the left-hand side of each table provide a quick reference to the question number, question part and the total number of marks available for that question part.

The Correct response column usually includes 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, and whether the marks are independent or cumulative
- examples of some different types of correct response, including the most common and the minimum acceptable.

The Additional guidance column indicates alternative acceptable responses, and provides details of specific types of response that are unacceptable. Other guidance, such as when 'follow through' is allowed, is provided as necessary.

Questions with a *Using and applying mathematics* element are identified in the mark scheme by an encircled *U* with a number that indicates the significance of using and applying mathematics in answering the question. The *U* number can be any whole number from 1 to the number of marks in the question.

The 2006 year 7 progress mathematics tests and mark schemes were developed by the Mathematics Test Development Team at Edexcel.

General guidance

Using the mark schemes

Answers that are numerically equivalent or algebraically equivalent are acceptable unless the mark schemes state otherwise.

In order to ensure consistency of marking, the most frequent procedural queries are listed on the following two pages with the prescribed correct action. This is followed by further guidance relating specifically to the marking of questions that involve money, negative numbers, algebra, time or coordinates. Unless otherwise specified in the mark schemes, markers should apply the following guidelines in all cases.

What if ...

The pupil's response does not match closely any of the examples given.	Markers should use their judgement in deciding whether the response corresponds with the statement of requirements given in the Correct response column. Refer also to the Additional guidance.
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, is acceptable. Provided there is no ambiguity, condone the continental practice of using a comma for a decimal point.
The pupil has made a conceptual error.	In some questions, a method mark is available provided the pupil has made a computational, rather than conceptual, error. A computational error is a 'slip' such as writing $4 \times 6 = 18$ in an otherwise correct long multiplication. A conceptual error is a more serious misunderstanding of the relevant mathematics; when such an error is seen, no method marks may be awarded. Examples of conceptual errors are: misunderstanding of place value, such as multiplying by 2 rather than 20 when calculating 35×27 ; subtracting the smaller value from the larger in calculations such as $45 - 26$ to give the answer 21; incorrect signs when working with negative numbers.
The pupil's accuracy is marginal according to the overlay provided.	Overlays can never be 100% accurate. However, provided the answer is within, or touches, the boundaries given, the mark(s) should be awarded.
The pupil's answer correctly follows through from earlier incorrect work.	Follow through marks may be awarded only when specifically stated in the mark schemes, but should not be allowed if the difficulty level of the question has been lowered. Either the correct response or an acceptable follow through response should be marked as correct.
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. If the original intention or difficulty level of the question is not reduced, deduct one mark only. If the original intention or difficulty level is reduced, do not award any marks for the question part.
The correct answer is in the wrong place.	Where a pupil has shown understanding of the question, the mark(s) should 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.

What if ...

vviiat ii		
The final answer is wrong but the correct answer is	Where appropriate, detailed guidance will be given in must be adhered to. If no guidance is given, markers we each case to decide whether:	
shown in the working.	■ the incorrect answer is due to a transcription error	If so, award the mark.
	 in questions not testing accuracy, the correct answer has been given but then rounded or truncated 	If so, award the mark.
	 the pupil has continued to give redundant extra working which does not contradict work already done 	If so, award the mark.
	the pupil has continued, in the same part of the question, to give redundant extra working which does contradict work already done.	If so, do not award the mark. Where a question part carries more than one mark, only the final mark should be withheld.
The pupil's answer is correct but the wrong working is seen.	A correct response should always be marked as correct schemes state otherwise.	t unless the mark
The correct response has been crossed or rubbed out and not replaced.	Mark, according to the mark schemes, any legible cros work that has not been replaced.	sed or rubbed out
More than one answer is given.	If all answers given are correct or a range of answers is given, all of which are correct, the mark should be awarded unless prohibited by the mark schemes. If both correct and incorrect responses are given, no mark should 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 should not be disallowed for working or answers given in a different part, unless the mark scheme specifically states otherwise.	

Marking specific types of question

Responses involving money For example: £3.20 £7	
Accept √	Do not accept ×
✓ Any unambiguous indication of the correct amount eg f3.20(p), f3 20, f3,20, 3 pounds 20, f3-20, f3 20 pence, f3:20, f7.00	Incorrect or ambiguous indication of the amount eg £320, £320p or £700p
 ✓ The unit, £ or p, is usually printed in the answer space. Where the pupil writes an answer outside the answer space with no units, accept responses that are unambiguous when considered alongside the given units eg with £ given in the answer space, accept 3.20	 Ambiguous use of units outside the answer space eg with f given in the answer space, do not accept 3.20p outside the answer space Incorrect placement of decimal points, spaces, etc or incorrect use or omission of 0 eg f3.2, f3 200, f32 0, f3-2-0 f7.0

Responses involving negative numbers For example: -2	
Accept √	Do not accept x
	To avoid penalising the error below more than once within each question, do not award the mark for the first occurrence of the error within each question. Where a question part carries more than one mark, only the final mark should be withheld. Incorrect notation eg 2-

Responses involving the use of algebra For example: $2 + n + n + 2 + 2n + \frac{n}{2} + n^2$			
Accept ✓	Take care! Do not accept x		
✓ Unambiguous use of a different case or variable eg N used for n x used for n	! Unconventional notation eg $n \times 2$ or $2 \times n$ or $n2$ or $n + n$ for $2n$ $n \times n$ for n^2 $n \div 2$ for $\frac{n}{2}$ or $\frac{1}{2}n$ $2 + 1n$ for $2 + n$ $2 + 0n$ for 2 Within a question that demands simplification, do not accept as part of a final answer involving algebra. Accept within a method when awarding partial credit, or within an explanation or general working.		
	Embedded values given when solving equations eg in solving $3x + 2 = 32$, $3 \times 10 + 2 = 32$ for $x = 10$ To avoid penalising the two types of error below more than once within		
	each question, do not award the mark for the <i>first</i> occurrence of each type within each question. Where a question part carries more than one mark, only the final mark should be withheld.		
✓ Words used to precede or follow equations or expressions eg $t = n + 2$ tiles or tiles = $t = n + 2$ for $t = n + 2$! Words or units used within equations or expressions eg n tiles + 2 n cm + 2 Do not accept on their own. Ignore if accompanying an acceptable response.		
✓ Unambiguous letters used to indicate expressions eg $t = n + 2$ for $n + 2$	Ambiguous letters used to indicate expressions eg $n = n + 2$ for $n + 2$		

Responses involving time A time interval For example: 2 hours 30 minutes			
Accept √	Take care! Do not accept x		
 ✓ Any unambiguous indication eg 2.5 (hours), 2h 30 ✓ Digital electronic time ie 2:30 	 Incorrect or ambiguous time interval eg 2.3(h), 2.30, 2-30, 2h 3, 2.30 min The unit, hours and/or minutes, is usually printed in the answer space. Where the pupil writes an answer 		
	outside the answer space, or crosses out the given unit, accept answers with correct units, unless the question has specifically asked for other units to be used.		
A specific time For example: 8:40am	17:20		
Accept ✓	Do not accept x		
✓ Any unambiguous, correct indication eg 08.40, 8.40, 8:40, 0840, 8 40, 8-40, twenty to nine, 8,40 ✓ Unambiguous change to 12 or 24 hour clock eg 17:20 as 5:20 pm, 17:20 pm	 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, 084, 84 		

Responses involving coordinates For example: (5, 7)		
Accept ✓	Do not accept ×	
✓ Unconventional notation eg (05, 07) (five, seven) x y (5, 7) ($x = 5, y = 7$)	Incorrect or ambiguous notation eg $(7,5)$ (7,5) (5x,7y) $(5^x,7^y)$ (x-5,y-7)	

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and 1m lost, with no explicit order, then this will be recorded by the 1

The total marks awarded for a double page will be written in the box bottom of the right-hand page, and the total number of marks obtain paper will be recorded on the front of the test paper.

A total of 100 marks is available (40 from Paper 1, 40 from Paper 2; the mental mathematics test).

Awarding levels

The sum of the marks gained on Paper 1, Paper 2 and the mental mat paper determines the level awarded. Level threshold tables, which sho mark ranges for the award of different levels, will be available on the website *www.naa.org.uk/tests* from Monday 19 June 2006. NAA wil a copy to each school on 30 June 2006.

Schools will be notified of pupils' results by means of a marksheet, we be returned to schools by the external marking agency with the pupils scripts. The marksheet will include pupils' scores on the test papers at levels awarded.

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Mark scheme for Paper 1

Question			Euro totals
1		Correct response	Additional guidance
	1m	705	
	1m	1010	

Question			Rotating face
2		Correct response	Additional guidance
	1m	Indicates the correct orientation of the features on the last face, ie	 ! Inaccurate indication Accept provided the pupil's intention is clear ! Additional features added Ignore

Question			Even add
3		Correct response	Additional guidance
	1m	Gives a correct explanation The most common correct explanations:	! Explanation contains an incorrect statement Ignore alongside a correct response
		Show or imply the correct answer to the sum eg 538 + 46 = 584 It should be 585 - 1	✓ Minimally acceptable explanation eg • 584 • It's wrong by 1
			 ★ Incomplete explanation eg • 538 + 46 is not 585
		Show or imply that Nisha has calculated either 538 + 47 or 539 + 46 eg 538 + 47 = 585 585 - 538 = 47 539 + 46 = 585 585 - 46 = 539	 ✓ Minimally acceptable explanation eg • She added 47 • She used 539
		Refer to the two numbers added being even, where the answer is odd eg If you add two even numbers the answer is even, but 585 is odd	 ✓ Minimally acceptable explanation eg • Even + even = even • The first two numbers are even, but the answer is odd • The answer should be even • An odd result is impossible
			 Incomplete explanation eg Even + even It's an odd answer
		Show or imply why the last digit in one of the values is incorrect eg $8 + 6 = 14$ so it should end in 4 $38 + 46 = 84$ $85 - 46 = 39$	 ✓ Minimally acceptable explanation eg • 8 + 6 = 14 but it ends in a 5 • It should end in 4 • It ends in 84
	<u>U1</u>)	■ 85 – 8 ends in 7, not 6	 Incomplete or incorrect explanation eg 8 + 6 = 14 8 + 6 does not equal 15 It shouldn't end in a 5 It should end in 6, not 5

Question			Leap year
4		Correct response	Additional guidance
	2m	Completes both bars correctly by showing a frequency of 4 for 30 days and 7 for 31, ie	✓ For 2m, bars not shaded, or bars indicated solely by shading with no horizontal lines
	or	10 8 6 6 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	! Bar not of correct width, or not ruled/accurate Accept provided the pupil's intention is clear and the height of the bar is within 2mm of the correct height ! Additional bars indicated For 2m or 1m, accept only if unambiguous eg, do not accept 10 8 6
	or 1m	Or Indicates the correct values 4 and 7 using the vertical scale of the chart, even if the bars are incorrectly shaded or aligned	2 29 days 30 days 31 days

Question			From 98
5		Correct response	Additional guidance
a	2m	Gives all three correct values, ie 108 198 1098	
	or 1m	Gives any two correct values	
b	1m	980	

Question			Buses and trains
6		Correct response	Additional guidance
a	1m	10 10	! Indication of am or pm Accept provided the time is correct eg, for part (a) accept
b	1m	12 55	• 10 10am eg, for part (a) do not accept • 10 10pm

Question			Newspapers
7		Correct response	Additional guidance
	1m (U1)	£ 4.70	

Question			Two numbers
8		Correct response	Additional guidance
a	1m	Indicates $7\frac{1}{2}$ and $12\frac{1}{2}$, in either order	✓ Equivalent fractions or decimals
ь	1m	Indicates $12\frac{1}{2}$ and $22\frac{1}{2}$, in either order	

Question					Multiplication g	ırids
9		Correct response			Additional guidance	
	1m	20				
	2m	Gives four correct whole number values in the correct positions, ie			non-integer value(s)	
		×	8	5	Note that values in the left-hand colun would be in the ratio 3: 2, and those i	
		3	24	15	top row in the ratio 8:5	
		2	16	10		
	or 1m	Ciarra et 1a co	t one correct	1		
		the correct p	he top row as	e left-hand		
		×		5		
		3		15		
		or				
			that work fo			
		×	4	2		
		6	24			
		5		10		
		•				
		×	12	7.5		
		2	24	15		
	U2)					

Question		Sequence of numbers					
10		Correct response	Additional guidance				
a	1m	Gives the first value as 765					
	1m	Gives the last value as 925					
b	1m	Gives the second to last value as 0					
	1m	Gives the last value as –15	 ! Follow through as their 0 – 15 Accept provided this results in a negative number * Incomplete processing eg, for the second mark in part (b) • 0 – 15 				

Question			Plants
11		Correct response	Additional guidance
a	1m	60	
b	1m	2	✓ Correct plants indicated eg • C and G
С	1m	20	

Question			Relationships
12		Correct response	Additional guidance
	1m	18	
	1m	20	
	1m	30	

Question			Making a shape
13		Correct response	Additional guidance
	1m	10	

Question			Brothers and sisters
14		Correct response	Additional guidance
	2m	Places the names John, Gill and Fred in the correct regions, ie Has a sister Gill John Fred	 ✓ Unambiguous indication eg J, G and F for John, Gill and Fred ! Name repeated in more than one region Do not accept as a correctly placed name ! Names on the diagram other than
	or 1m	Places any two names in the correct regions	

Question			Properties of a shape
15		Correct response	Additional guidance
	2m	Makes all four correct decisions, ie True False	! Unambiguous indication Accept any unambiguous indication but do not accept blanks for false
	or 1m	Makes three correct decisions	

Question			Finding fractions
16		Correct response	Additional guidance
	1m	4	
	1m	15	

Question			Cost
17		Correct response	Additional guidance
	1m (U1)	90 p	

Question			Coordinates	
18		Correct response	Additional guidance	
	1m	Marks any point on the line $x = 4$ with a y coordinate greater than 4 eg (4, 5) (4, 6) (4, 4.5)	! Inaccurate indication Accept provided the pupil's intention is clear	

Question		Triangle pattern		
19		Correct response	Additional guidance	
а	1m	Indicates trapezium, ie	✓ Unambiguous indication	
b	1m	17		

Question			Parcels
20		Correct response	Additional guidance
	2m	150	
	<i>or</i> 1m	Shows the value 750 or 0.75	
	(U1)	Shows an incorrect reading of the scale but then divides their reading correctly by 5 eg • 675 seen, then answer of 135 or Indicates the position of 150 on the scale with incorrect or no further interpretation	! Their reading is not a multiple of 5 Ignore any remainder given, even if incorrect

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Mark scheme for Paper 2

Question			Data
1		Correct response	Additional guidance
a	1m	Frank	✓ Unambiguous indication of name eg • F × 54
b	1m	168	× Gina

Question			Rectangle symmetry
2		Correct response	Additional guidance
	1m	Draws the two lines of symmetry in the correct positions on the rectangle eg • • • • • • • • • • • • •	 ! Lines not ruled, accurate or full length Accept provided the pupil's intention is clear and each line spans at least two squares * Additional lines indicated

Question			Which one?
3		Correct response	Additional guidance
a	1m	Indicates only 4 metres, ie ✓ 4 metres	
Ь	1m	Indicates only −18°C, ie ✓ −18°C	
С	1m	Indicates only 3 kilograms, ie	

Question		Ages		
4		Correct response	Additional guidance	
a	1m	58		
b	1m (U1)	35		

Question			Digital time
5		Correct response	Additional guidance
	1m	Indicates the correct time, ie	
		4:05 3:55	
		4:15	
		3:45	

Question	Hours of sleep		
6		Correct response	Additional guidance
a	1m	Horse	 ! Unambiguous indication eg, accept • Ho eg, do not accept • H
b	1m	5	
С	1m (U1)	4	! Four circles drawn Condone

Question			Odds
7		Correct response	Additional guidance
а	1m	11	! For part (a), other odd numbers listed Ignore, provided there is no ambiguity as to which is their answer
b	1m	36	✓ Follow through as 25 + their (a)

Question		Number lines		
8		Correct response	Additional guidance	
	1m	150		
	1m	1.5	✓ Equivalent fractions or decimals	
	1m	0.15	× For the second and third marks, follow through	
			 For the second and third marks, incorrect notation eg, for the third mark 0.1½ 	

Question			Shaded numbers
9		Correct response	Additional guidance
	1m	Indicates No and gives a correct explanation The most common correct explanations:	! Explanation contains an incorrect statement Ignore alongside a correct response
		Reason generally about odd/even numbers eg Only even numbers are shaded and 35 is odd 35 isn't divisible by 2, but all the shaded numbers are	 ✓ Minimally acceptable explanation eg • They are even • It is odd • It's not in the 2 times table ✓ Incomplete explanation eg • 35 won't be in a shaded column • It goes up in 4s (or 2s)
		Use counting on eg (3, 7, 11,) 15, 19, 23, 27, 31, 35 14	 It's not in the 4 times table ✓ Minimally acceptable explanation that at least shows or implies that 34 or 36 will be shaded eg • 35 will be in the third column • Numbers ending in 5 have white squares • Keep adding 4 to 11 and you get 35 • 34 will be shaded, so 35 can't be • 36 is, so 35 can't be
	(U1)	34 36	 Incomplete explanation eg Just count on

Question			Different shapes
10		Correct response	Additional guidance
a	1m	D	✓ Unambiguous indication eg, for part (b) • Triangle
ь	1m	С	
С	1m	Indicates No and gives a correct explanation The most common correct explanations: Refer to at least one of the other shapes having the same area as shape C	✓ Minimally acceptable explanation
		eg All of the shapes have the same area because they are made from 4 of the same sized tiles Each shape is made from 4 equal triangles Two tiles make a square and all the shapes are made of 2 squares	 Same E is the same All 4 All 2 * Incomplete or incorrect explanation eg 4 tiles B has a bigger area
		Refer to at least one of the other shapes having an area of 8 squares eg All the shapes have an area of 8 squares	 ✓ Minimally acceptable explanation eg All 8 B is 8 as well
			 ! Squares taken to be square centimetres eg • All 8cm² Condone * Incorrect explanation
	(U1)		eg • They all have the same area of 16 squares

Question			Place value
11		Correct response	Additional guidance
a	1m	Gives both correct values in the correct order, ie 3 hundred(s) 4 thousand(s)	 ✓ Unambiguous indication eg • 300
b	1m	20 020	× Response given in words

iestion						Runni
12		Co	orrect respons	se		Additional guidance
2m	II.	s all five corre icated	ct orders with	none incorrec	et or	
	-	Finish 1st	Finish 2nd	Finish 3rd		
		A	В	С		
		A	С	В		
		В	A	С		
		В	С	A		
		С	A	В		
		С	В	A		
or 1m		s at least three two incorrect			re	

Question			Shading percentages
13		Correct response	Additional guidance
a	1m	50	× Equivalent fractions or decimals
b	1m	25	× Follow through

Question	Faces of sh		Faces of shapes
14		Correct response	Additional guidance
a	1m	Completes the row for the cuboid correctly, ie	✓ For the first mark, zero cell left blank or marked with a dash or cross or similar
	1	cuboid 6 0	
	1m	Completes the row for the triangular prism correctly, ie	
		triangular prism 3 2	
Ь	1m (U1)	Square-based pyramid	! Answer of 'pyramid' or 'square pyramid' Condone

Question			Hiring a car
15		Correct response	Additional guidance
a	1m	£ 200	
b	1m	14	

Question		Matching probabi		
16		Correct response	Additional guidance	
	2m	Matches all four sentences correctly, ie 20 Certain Likely greater than 3 Even chance less than 12 Unlikely Impossible	! Sentence matched to more than one description of probability For 2m or 1m, do not accept as a correct match	
	or 1m	Matches at least two sentences correctly		

Question			Sea
17		Correct response	Additional guidance
a	1m	Fish	✓ Unambiguous indication of fish eg • F • • • • • • • • • • • • •
b	1m	30	× -30

Question			Turning pattern
18		Correct response	Additional guidance
18	2m or 1m	Completes both missing sides of the correct triangle, ie Completes a triangle with a base on the thick vertical line in the correct quadrant, even if the vertices are incorrectly positioned eg	

Question			Days in a mont
19		Correct response	Additional guidance
a	1m	Indicates True and gives a correct explanation eg There are 7 months with 31 days but only 4 months with 30 and 1 month with 28 There are more months with 31 days than 30 days or 28 days so 31 is the mode	 Minimally acceptable explanation eg Most months have 31 7 of them have 31 More 31s When you count the months, there are more than any of the others Most common There are more with 31 than 30 ** Incomplete, ambiguous or incorrect explanation eg Mode is the most 7 There are more than any of the others 31 is the most days you can have in a month
b	1m	3	

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Transcript and mark scheme for the mental mathematics test

General guidance for markers

Please note that pupils should not be penalised if they record any information given in the question or show their working. Ignore any annotation, even if in the answer space, and mark only the answer. Accept an unambiguous answer written in the stimulus box, or elsewhere on the page but clearly attributable to the relevant question.

General guidance for marking the written tests (pages 5–11) also applies to marking the mental mathematics test. In addition, please apply the following principles unless specific instructions to the contrary are given in the mark scheme:

- accept responses in words and/or figures,
 eg 7 point 3, 4 hundred
- accept any unambiguous indication of the correct response from a given list,
 eg circling, ticking, underlining
- accept unambiguous misspellings
- accept units that have been correctly converted to a different unit provided the new unit is indicated. Where units have been given on the answer sheet, do not penalise pupils for writing the units again
- accept responses with commas as spacers,
 eg 50,000
 but do not accept a point used as a spacer,
 eg 50.000

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우

15

Practice question

Ξ

Time: 5 seconds

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빌

Total

German

French

Time: 10 seconds

Year 7 mathematics 2006 Mental mathematics test

Pupil answer sheet

36 33

39 22

Girls Boys

Last name First name

School

boys

Test questions

Now we are ready to start the test.

For the first group of questions you will have 5 seconds to work out each answer and write it down.'

1	How many right angles does a square have?
2	What number must I add to seventy-three to make one hundred?
n	3 Multiply six by three.
4	4 What number is one hundred less than four thousand?
2	How many hours is one hundred and eighty minutes?
9	What number is nought point one more than five point nine?

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

,	Look at the table on your answer sneet. It shows how many boys and girls in a year group study French or German. How many boys study German?
∞	I start by facing north-east. I turn through half a turn. Which direction am I facing now?
6	Look at the rectangle on your answer sheet. What fraction of the rectangle is shaded?
10	10 What is two thousand seven hundred and sixty-three rounded to the nearest hundred?
7	11 Look at the shape on your answer sheet. Write down the coordinates of the point marked A.
12	What is the remainder when thirty-two is divided by five?
13	Look at the numbers on your answer sheet. Put a ring round the smallest number.

2

32

4

4000

က

က

73

0.308

0.4

0.3

೮

180 minutes

hours

0.2

0.03

5.9

'Now turn over your answer sheet.'

40

200g slidnd CH 28 $\not\equiv$ 217 Kg \equiv $\not\equiv$ $\not\equiv$ D Packed lunch School Yes ž 12 16 4 9 19 20

am shows how many pupils had a school dinner or inch on one day.
r pupils had a school dinner.
pupils had a packed lunch?
ht half a kilogram of cherries.
It two hundred grams of cherries.
how many grams of cherries did they buy?

nber that is a multiple of ten and that is also a multiple of twelve.

boxes do I need to buy so that the pupils have one pencil each?

wenty-eight pupils in a class.

; pencils in boxes of ten.

sked his class if they had used a bus to get to school

more pupils said yes than said no?

art shows the results.

IIIOIE IIIOIIEY UOES IVIAIY IIEEU LO IIIAKE OIIE POUIIU:

lown. The test is finished.'

shaded shape drawn on a centimetre square grid.

perimeter?

Time: 10 seconds Year 7 progress test in mathematics 2006 **Mental mathematics 36** boys Accept value 7 indicated in table Mark scheme 8 **South-west** Accept unambiguous abbreviations Do not accept West-south or WS 9 Accept equivalent fractions Do not accept equivalent decimals or percentages 10 2800 Time: 5 seconds 1 4 (2,1) 11 Accept embedded values, 2 27 eg 73 + 27 3 18 Accept embedded values, 12 2 4 3900 eg 6 rem 2 **3** hours 13 5 0.3 0.4 0.308 0.03 0.2 6(.0) 6

Time: 15 seconds

14	40 p			
15	4			
16	3 boxes	Accept reference to a correct remainder, eg 3 boxes 2 left over		
	Г			
17	Any multiple of 60, eg 60, 120			
18	9 pupils			
19	700 g			
20	10 cm			

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EARLY YEARS

NATIONAL CURRICULUM 5–16

GCSE

GNVQ

GCE A LEVEL

NVQ

OTHER VOCATIONAL QUALIFICATIONS

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