

'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	Your answer sheet shows the price of a book. How much is the book, to the nearest pound?
2	Multiply four by four.
3	Subtract forty-eight from seventy.
4	What is fifty per cent of ten?
5	Look at the equation. Find the value of k .
6	What is half of two-thirds?

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

7	In a local swimming pool, thirty-two lengths is half a mile. How many lengths is one mile?
8	I bought three tickets for a concert. The total cost was forty-five pounds. How much was one ticket?
9	Your answer sheet shows part of a train timetable. How long does the journey take from Twyford to Maidenhead?
10	What is one quarter of sixty?
11	What is the perimeter of this square?
12	Look at the numbers. Put a ring round the median.
13	Look at the scale. About what value is the arrow pointing to?
14	My birthday is twenty-two days after my friend's birthday. This year my friend's birthday is on a Monday. On what day will my birthday be this year?
15	The longest flight of stairs in the world is in Switzerland. Your answer sheet shows how many stairs there are. Write this number to the nearest thousand.
16	Look at the numbers. What is the largest number that will divide exactly into both of these numbers?

'Now turn over your answer sheet.'

Sourced from SATs-Papers.co.uk

Key stage 3 mathematics 2004
Mental mathematics Test C

First name _____

Last name _____

School _____

Total marks

Time: 10 seconds

7	lengths	32	7										
8	£	£45	8										
9	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Reading</td> <td style="padding: 2px;">10:45</td> </tr> <tr> <td style="padding: 2px;">Twyford</td> <td style="padding: 2px;">10:54</td> </tr> <tr> <td style="padding: 2px;">Maidenhead</td> <td style="padding: 2px;">11:02</td> </tr> <tr> <td style="padding: 2px;">Slough</td> <td style="padding: 2px;">11:14</td> </tr> <tr> <td style="padding: 2px;">Paddington</td> <td style="padding: 2px;">11:38</td> </tr> </table>	Reading	10:45	Twyford	10:54	Maidenhead	11:02	Slough	11:14	Paddington	11:38	minutes	9
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12	4 9 10 13 20		12										
13			13										
14		22 days	14										
15		11 674	15										
16		12 20	16										

Practice question

		20	
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Time: 5 seconds

1	£	£16.55	1
2			2
3		70	3
4		50%	4
5		$k - 20 = 40$	5
6		$\frac{2}{3}$	6

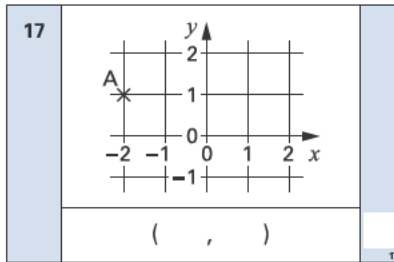
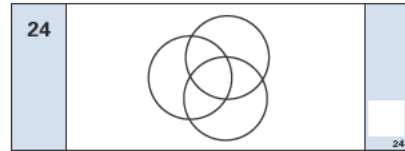
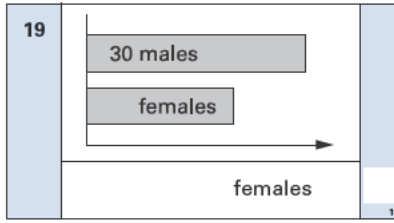






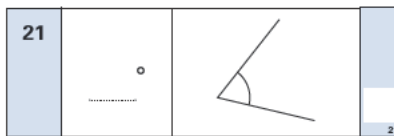
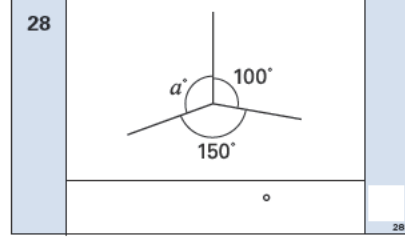
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17	On the grid is a point marked A. Write the coordinates of this point.
18	What is the next number in the sequence of square numbers? One, four, nine, sixteen ...
19	The chart shows the number of males and females who are members of a sports club. There are thirty males in the club. About how many females are there?
20	There are fourteen girls and thirteen boys in a class. What is the probability that a pupil chosen at random will be a girl?
21	Estimate the size of the angle, in degrees.
22	Look at the equation. When a is ten, what is the value of b ?

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

23	Look at the cube. I am going to hang it from the corner marked with an arrow. When it is hanging, which corner will be lowest? Mark the correct corner with a cross.
24	The diagram shows three circles. Shade the part of the diagram where all three circles overlap.
25	Look at the price list. I buy one sandwich, one yoghurt and two apples. How much money is that altogether?
26	In a survey, pupils were asked if they liked playing sport. Twenty pupils said yes. How many pupils said no?
27	Write three even numbers that add to twenty.
28	Work out the size of angle a .
29	What is the remainder when you divide three hundred by twenty-nine?
30	Look at the types of quadrilaterals on your answer sheet. Which of them must have sides that are all the same length? Ring the correct ones.

'Put your pens down. The test is finished.'

Time: 10 seconds continued		Time: 15 seconds continued									
17		24									
18	1, 4, 9, 16,	25	<table border="1"> <tr> <td>Sandwich</td> <td>£1.50</td> </tr> <tr> <td>Yoghurt</td> <td>75p</td> </tr> <tr> <td>Apple</td> <td>30p</td> </tr> <tr> <td>£</td> <td></td> </tr> </table>	Sandwich	£1.50	Yoghurt	75p	Apple	30p	£	
Sandwich	£1.50										
Yoghurt	75p										
Apple	30p										
£											
19		26	<table border="1"> <tr> <td>Yes</td> <td></td> </tr> <tr> <td>No</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">pupils</td> </tr> </table>	Yes		No		pupils			
Yes											
No											
pupils											
20	14 girls 13 boys	27	20								
21		28									
22	$b = 3a + 5$	29	300 29								
Time: 15 seconds		30	<table border="1"> <tr> <td>square</td> <td>rectangle</td> </tr> <tr> <td colspan="2" style="text-align: center;">parallelogram</td> </tr> <tr> <td>rhombus</td> <td>kite</td> </tr> </table>	square	rectangle	parallelogram		rhombus	kite		
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rhombus	kite										
23	