

**'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	Write in figures the number five hundred and eight.
2	What do you need to add to eighty-three to make one hundred?
3	Look at the equation on your answer sheet. When $a$ equals seven, what is the value of $b$ ?
4	What number multiplied by eight equals forty-eight?
5	Look at the number on your answer sheet. Divide it by one hundred.
6	What is the sum of the angles in a triangle?
7	Write the fraction on your answer sheet in its simplest form.
8	Look at the expression on your answer sheet. Write it as simply as possible.

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

9	I buy a notebook for fifty pence. How much change should I get from a two pound coin?
10	Look at the numbers on your answer sheet. Add them.
11	A train leaves at ten thirty am and travels for four hours. At what time does the train stop? Write your answer using am or pm.
12	I am counting back in steps of ten. One hundred and twenty-five, one hundred and fifteen, one hundred and five, ... Write down the next number.
13	What is half of seven?
14	Look at the temperatures on your answer sheet. Put a ring round the temperature that is the lowest.
15	Six hundred people went on holiday. The pie chart shows how they travelled. How many people travelled by car?

**'Now turn over your answer sheet.'**

Key stage 3 mathematics 2005  
Mental mathematics Test C

First name \_\_\_\_\_

Last name \_\_\_\_\_

School \_\_\_\_\_

Total marks

**Time: 5 seconds continued**

6  °

7   $\frac{3}{9}$

8   $3m + m$

Practice question

90

**Time: 10 seconds**

9 £  50p

10  25 28

11  10:30 am

12 125, 115, 105, .....

13

**Time: 5 seconds**

1

2

3   $b = 14 + a$

4

5  9300

14  $-1^{\circ}\text{C}$   $5^{\circ}\text{C}$   $-3^{\circ}\text{C}$

$2^{\circ}\text{C}$   $0^{\circ}\text{C}$

15  9300

**15**

Plane

Train Car

people

16	Write down an even number that is a multiple of seven.
17	Two rulers cost eighty pence. How much do three rulers cost?
18	How many seconds are there in one and a half minutes?
19	There were two thousand people at a concert. Nine hundred and ninety-two of them were women. How many of the people were not women?
20	Look at the numbers on your answer sheet. Work out their range.
21	The temperature was minus two degrees Celsius. At night the temperature fell by seven degrees. What was the temperature at night?
22	Look at the shaded triangle drawn on a centimetre square grid. What is the area of this triangle?
23	What is twenty per cent of sixty pounds?
24	Look at the triangle on the grid. Write the coordinates of the point marked A.

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

25	People at a shopping centre voted for their favourite fruit drink. The bar chart shows the results. Altogether, how many people voted?
26	I face west, then I turn through two right angles. What direction am I facing now?
27	Look at the shape made from small equilateral triangles. Shade two more triangles so that the shape has three lines of symmetry.
28	I am thinking of two numbers that add to ten. The two numbers multiply together to make twenty-one. What are my two numbers?
29	Which one of the shapes on your answer sheet is the net of a cube? Put a tick inside the correct shape.
30	I have twenty-five cards. Sixteen of them show even numbers and the rest show odd numbers. I am going to take a card at random. What is the probability that the card will show an odd number?

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

**Time: 10 seconds continued**

16

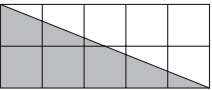
17 £  80p

18  seconds

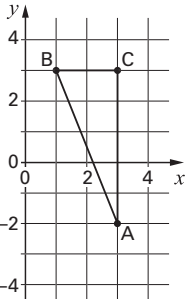
19  2000 992

20  3, 8, 3, 1, 4

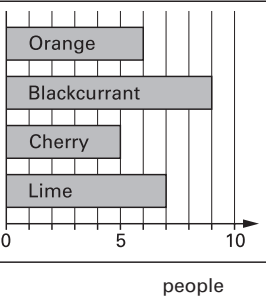
21  °C  -2°C

22  cm<sup>2</sup>

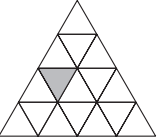
23 £  £60

24  ( , )

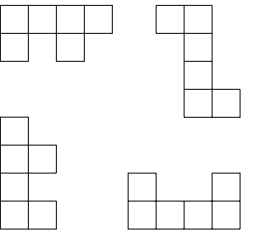
**Time: 15 seconds**

25  people

26  W

27 

28  and

29 

30  25 cards  
 16 even numbers