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NOTES FOR THE TEACHER

The following tests give pupils practice at answering the sort of questions that they will be asked in the progress test.

The mental test is the trial 1998 Key Stage 2 mental test.

- Each pupil needs a copy of the pupil's answer sheet.
- Read each question twice.
- Pupils can use jottings but emphasise that they are not necessary.
- Allow the stated time for each question.
- Each question is worth 1 mark.

The written test uses some questions from previous Key Stage 2 tests.

The questions cover work from Units 5 to 8.

- The paper should take about 30 minutes.
- Appropriate working should be shown.
- A mark scheme is included.

It is important that the results of the tests are used:

- to recognise pupils' progress;
- to focus future teaching on correcting misconceptions.

MENTAL TEST: QUESTIONS

SECTION 1

Say to the children:

Now we are ready to start the test. I shall read each question twice. For this first group of questions, you will have 5 seconds to work out each answer and write it down.

Question number 1

What is double thirty-five?

Question number 2

What is twenty-six more than fifty?

Question number 3

Write the number twenty thousand and sixty-nine in figures.

Question number 4

A bag contains only red and blue balls. The probability of taking a red ball out of the bag is a quarter. What is the probability of taking a blue ball out of the bag?

Question number 5

What is the size of each angle in an equilateral triangle?

SECTION 2

Say to the children:

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

Question number 6

Divide nine by three and then add seven.

Question number 7

An apple costs eighteen pence and an orange costs nineteen pence.
How much are they altogether?

Question number 8

The difference between a number and twenty-nine is ten.
What could the number be?

Question number 9

How many minutes are there in two and a half hours?

Question number 10

Look at the equation on your answer sheet.
What is the value of n ?

Question number 11

What is four hundred and sixty-seven centimetres to the nearest metre?

Question number 12

Alex paid for a tape with a five pound note and received one pound twenty-five change.
How much was the tape?

Question number 13

Put a ring around the approximate mass of an eating apple.

Question number 14

What is half of three point six?

Question number 15

On your answer sheet is a scale.
What is the number shown by the arrow?

SECTION 3

Say to the children:

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

Question number 16

A school has exactly twice as many boys as girls. There are one hundred and thirty-two girls.
How many boys are there?

continued overleaf...

Question number 17

Look at the timetable on your answer sheet.

How long does the journey take from the Church to the School?

Question number 18

Put a ring around the smallest of the six numbers on your answer sheet.

Question number 19

What is the size of Angle A marked on your answer sheet?

Question number 20

Multiply sixty by fifty.

Say to the children:

Put your pens down now. The test is finished.

Mental test 2 Pupil's answer sheet

Name

Total marks

SECTION 1

Time: 5 seconds each

1		
2		26 50
3		
4		
5	degrees	

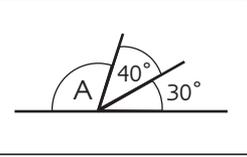
SECTION 2

Time: 10 seconds each

6		
7	p	18p 19p
8		
9	minutes	
10		$27 - n = 9$
11	m	
12	£	£5 £1.25
13	1 g 10 g 1000 g 5 g 150 g	
14		
15		

SECTION 3

Time: 15 seconds each

16		132										
17	minutes											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Bus Station</td> <td style="padding: 2px;">10:28</td> </tr> <tr> <td style="padding: 2px;">Church</td> <td style="padding: 2px;">10:33</td> </tr> <tr> <td style="padding: 2px;">Post Office</td> <td style="padding: 2px;">10:41</td> </tr> <tr> <td style="padding: 2px;">School</td> <td style="padding: 2px;">10:45</td> </tr> <tr> <td style="padding: 2px;">Town Centre</td> <td style="padding: 2px;">10:47</td> </tr> </table>			Bus Station	10:28	Church	10:33	Post Office	10:41	School	10:45	Town Centre	10:47
Bus Station	10:28											
Church	10:33											
Post Office	10:41											
School	10:45											
Town Centre	10:47											
18	2.53 14.9 13.5 5.3 16.3 1.94											
19	°											
												
20		60 50										

Mental test 2: answers

SECTION 1

Time: 5 seconds

- 1 70
- 2 76 26 50
- 3 20 069
- 4 $\frac{3}{4}$
- 5 60 degrees

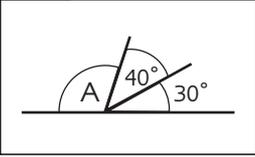
SECTION 2

Time: 10 seconds

- 6 10
- 7 37p 18p 19p
- 8 19 or 39 (1 answer or both = 1 mark)
- 9 150 minutes
- 10 18 $27 - n = 9$
- 11 5 m
- 12 £3.75 £5 £1.25
- 13 1 g 10 g 1000 g 5 g 150 g
- 14 1.8
- 15 2.33 

SECTION 3

Time: 15 seconds

- 16 264 132
- 17 12 minutes
- | | |
|-------------|-------|
| Bus Station | 10:28 |
| Church | 10:33 |
| Post Office | 10:41 |
| School | 10:45 |
| Town Centre | 10:47 |
- 18 2.53 14.9 13.5 5.3 16.3 1.94
- 19 110°
- 
- 20 3000 60 50

Written test 2

Pupil's answer sheet

Name

Total marks

You have 30 minutes for this test.
There are ten questions to answer.

1

Ellen ate $\frac{3}{4}$ of her birthday cake.
Dave ate the rest.

What fraction of the cake did Dave eat?

(1 mark)

2

80% of our class went to the school disco.

What percentage of the class didn't go to the disco? (1 mark)

3

Here is a shaded rectangle.

(2 marks)

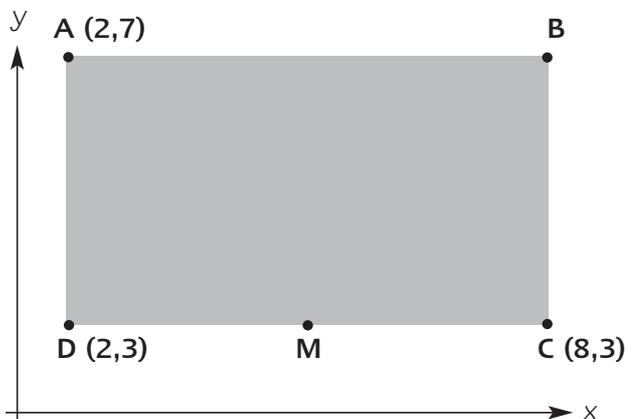
1 What are the coordinates of B?

(.....,.....)

M is halfway between D and C

2 What are the coordinates of M?

(.....,.....)



4

Paul had £8.45. He bought magazines costing £3.18.

How much money did he have left?

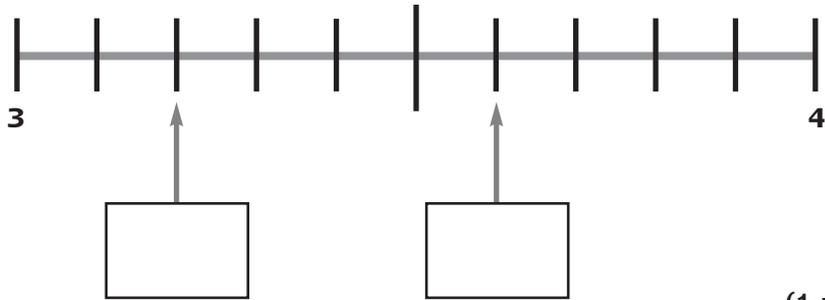
(1 mark)

5

Label the numbers that the arrows point to:

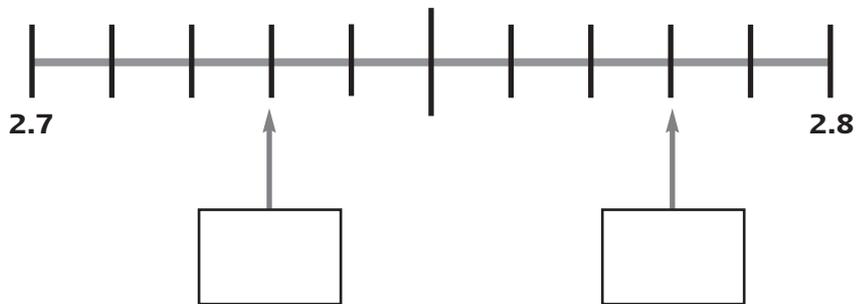
(1 mark)

(a)



(1 mark)

(b)



6

Calculate $524 - 249 =$

(1 mark)

A large dashed rectangular box for writing the answer to the subtraction problem.

7

Draw **one** line to join **two** fractions which have the **same** value.

(1 mark)

$$\frac{2}{2}$$

$$\frac{4}{7}$$

$$\frac{2}{8}$$

$$\frac{2}{5}$$

$$\frac{1}{4}$$

$$\frac{1}{3}$$

8

Fill in the missing digits.

(1 mark)

$$\begin{array}{r} 2 \square 8 \\ + 29\square \\ \hline 555 \end{array}$$

9

Calculate $549 \times 6 =$

(1 mark)

Here are six triangles.

One of them is an **equilateral** triangle.

Put a tick (✓) in the **equilateral** triangle.

(1 mark)



Write **one property** which makes **equilateral** triangles **different** from **all** other triangles

.....
.....

(1 mark)

Written test 2: answers

- 1 One quarter or $\frac{1}{4}$ (1 mark)
-
- 2 20% (1 mark)
-
- 3 B (8,7) M (5,3) (2 marks)
-
- 4 £5.27 (1 mark)
-
- 5 (a) 3.2 3.6 (1 mark)
(b) 2.73 2.78 (1 mark)
-
- 6 275 (1 mark)
-
- 7 Connect $\frac{2}{8}$ and $\frac{1}{4}$ (1 mark)
-
- 8
$$\begin{array}{r} 2 \quad \boxed{5} \quad 8 \\ + \quad 2 \quad 9 \quad \boxed{7} \\ \hline 5 \quad 5 \quad 5 \end{array}$$
 (1 mark)
-
- 9 3294 (1 mark)
-
- 10 Ticked the top right-hand triangle (1 mark)
Three equal sides (1 mark)
-

Total 13 marks

