SATs-style national curriculum tests

Key Stage 2 (2018)

Mathematics

Paper 2: reasoning

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				

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Please do not write on this page.

Instructions

You must not use a calculator to answer any questions in this test.

Questions and answers

You have 40 minutes to complete this test.

Follow the instructions for each question.

Work as quickly and carefully as you can

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:



For these questions, you may get a mark for showing your method.

If you cannot do a question, go to the next one.

You can come back to it later, if you have time.

<u>Marks</u>

The number under each line at the side of the page tells you the number of marks available for each question.

Here is a shape on a grid.

Complete the design so it is symmetrical about the mirror line.



1 mark

2

Bilal completes this calculation.





Write a **subtraction calculation** he could use to check his answer.





Ч

These three diagrams show three equivalent fractions.



6

1 mark

18

Here are the temperatures in four cities at midnight and midday.

	Tempe	erature
City	At midnight	At midday
London	-5℃	8°C
Madrid	٩°C	17°C
New York	-7°C	14°C
Cairo	0°C	26°C

At midday, how many degrees warmer was New York than London?

degrees

1 mark

Which city was 13 degrees colder at midnight than at midday?

1 mark

The numbers in this sequence increase by the same amount each time.

896,502 897,502 898,502 899,502

What is the next number in the sequence?





7

8



1 mark

Jen buys 4 large bags and 2 small bags of sweets.

Each large bag has 36 sweets. Each small bag had 18 sweets.





How many sweets did Jen buy altogether?

\int												
Show												
method									s۱	Nee	sts	
									5,	,	,13	

The list below shows the years in which the Women's Cricket World Cup was held since 1973:

1973, 1978, 1982, 1988, 1993, 1997, 2000, 2005, 2009, 2013, 2017



Anya is **not** correct.



1 mark

> = <

Write the correct symbol in each box to make the statement correct.

2 marks

10

Here is a drawing of a 3D shape.

Complete this table.

Number of faces	Number of vertices	Number of edges

Here is a shape on a grid.

The shape is translated so that point A moves to (8, 10).

smallest

1 mark

15

A supermarket has 3 rooms containing boxes of pineapples.

There are 35 pineapples in each box.

There are 4 boxes in each room.

How many pineapples are there in total?

Show												
method								pir	neai	ءامد	s s	
								P"		opr		

2 marks

Eve wants to use a mental method to calculate 176 + 98

She starts from 176.

Here are some methods that Eve could use.

Last year, Noah went to see five films at the cinema.

Two of his tickets cost £4

Three of his tickets cost £5.

What was the **mean** cost of the tickets?


```
2 marks
```


Sally wants to estimate the answer to this calculation.

$$3\frac{9}{10} + 2\frac{6}{7} - 1\frac{1}{5}$$

Tick the calculation below that is the best estimate.

Tick one.

The length of a human forearm can be estimated by:

- measuring the width of your palm.
- then multiplying that by 4.5

Using the information below, estimate the **difference** in length of each person's forearm.

1 mark

What is the volume of the cube?

1 mark

23

The length of a day on Earth is 24 hours.

The length of a day on Venus is 243 times longer.

What is the length of a day on Venus, in **hours?**

Show											
your method									hou	rs	
memou											

2 marks

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• None