## SATs-style national curriculum tests

## Key Stage 2 (2019)

## Mathematics

## Paper 3: reasoning

| First name |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Middle name |  |  |  |  |
| Last name |  |  |  |  |
| Date of birth | Day |  | Month |  |
| School name |  |  |  |  |
| DfE number |  |  |  |  |

## Available from $\mathrm{Mr} \mathrm{A}, \mathrm{MrC}$ and Mr D Present

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## 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.

## Marks

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


## What is the sale price of the car?



1 mark

## Which digit is in the hundred thousands place?



1 mark

## Round 6,740,917 to the nearest thousand.



```
I had £7
I was given some more money.
```

Which expression shows how much money David has left?
a is the amount of money, in pounds, that David was given.

$2.78 \mathrm{~kg} \quad 1.09 \mathrm{~kg} \quad 1.9 \mathrm{~kg} \quad 2.078 \mathrm{~kg}$

lightest


1 mark

6 Matt buys one toy Rubik's Cube and one pack of cards.


He pays with a $£ 20$ note.

## How much change does he get?




What is the difference between the heaviest puppy and the lightest puppy?

The masses of the puppies are put into four groups.

## Write the missing numbers in the table.

One has been done for you.

| Mass in g | Number of puppies |
| :---: | :---: |
| $350-399$ |  |
| $400-449$ |  |
| $450-499$ |  |
| $500-550$ | 1 |

$\qquad$

Dan is playing a game. He had 7,367 points.
Then he scores another 265 points.
Dan's target is 9,000 points.

How many more points does dan need to reach his target?


9 This pictogram shows the number of snow leopards left in the wild.


How many snow leopards are left in the wild?


On the grid there are three main points joined by two lines.


Sara then plots another point on the grid at $(-2,1)$.
She then joins the points to make a quadrilateral.

Complete Sara's quadrilateral on the grid. Use a ruler.

Then Sara translates the quadrilateral 6 squares to the right.

Draw the quadrilateral in its new position on the grid.


Write each number on the correct card.

The number 3 has been written on the correct cards for you.


2 marks

12 Zainab's sofa is 160 cm in length and 115 cm in width.
She is making a one-tenth scale model of the sofa.

Write each number on the correct card.



Explain why Kerry is not correct.



How far is it from Nottingham to London in kilometres?

Use 8 kilometres equals 5 miles.

$\qquad$
1 mark


Onions
$£ 2.60$ per kg


Tomatoes
$£ 1.20$ per kg

Jill buys $1 \frac{1}{2} \mathrm{~kg}$ of onions and $\frac{1}{2} \mathrm{~kg}$ of tomatoes.

How much change does she get from $£ 10$ ?


$$
a+3 b=30
$$

$a$ and $b$ are whole numbers less than 20 .

What could $a$ and $b$ be?


Tick the fractions that are more than $\frac{\mathbf{4}}{\mathbf{6}}$
$\frac{11}{12} \square$


Angie makes jewellery to sell at the school fair.

Each bracelet has 41 beads.
She makes 72 bracelets.


How many beads does Angie use altogether?


Eve is making booklets.


Each booklet must have 48 sheets of paper.
She has 4 packets of paper.
There are 250 sheets of paper in each pack.

How many complete booklets can Adam make from 2 packets of paper?


2 marks


Point $C$ is in the centre of the rectangle.

What are coordinates $A$ and $B$ ?


calculate the length of the rectangle.


1 mark


The distance from point $P$ to point $R$ is 1000 metres.
The distance from point $P$ to point $Q$ is 4 times the distance from point $Q$ to point $R$.

Lucy says,

It is 250 m from point $Q$ to point $R$.


Explain why Lucy is not correct.

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## Mr A, Mr Cand Mr D Present

SATs-style national curriculum tests
Reasoning Paper 3 (2019)
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- None

