## Ma

KEY STAGE
2

## LEVELS

3-5

## Paper 2

Calculator not allowed


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



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## Instructions

You may not use a calculator to answer any questions in this paper.

Work as quickly and as carefully as you can.
You have $\mathbf{4 5}$ minutes for this test.

If you cannot do one of the questions, go on to the next one.
You can come back to it later, if you have time.
If you finish before the end, go back and check your work.

Follow the instructions for each question carefully.

This shows where you need to put the answer.

If you need to do working out, you can use any white space on a page. Do not write over any barcode.

## Some questions have an answer box like this:



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


| $21^{\circ} \mathrm{C}$ | $-13^{\circ} \mathrm{C}$ | $-24^{\circ} \mathrm{C}$ | $0^{\circ} \mathrm{C}$ | $35^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\mathbb{V}_{\text {lowest }}{ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ |
|  |  |  |  |  |

3 These are some prices in a fish and chip shop.

| Fish | $£ 2.30$ | Peas | $35 p$ |
| :--- | ---: | :--- | :--- |
| Sausage | $£ 1.80$ | Curry sauce | $40 p$ |
| Chips (small bag) | $60 p$ | Bread roll | $30 p$ |
| Chips (large bag) | $90 p$ | Pickled onion | $28 p$ |

Alfie buys one fish, a large bag of chips and a pickled onion.

How much does he pay?


Megan buys a sausage and a bread roll.
Chen buys a small bag of chips and a curry sauce.

How much more does Megan pay than Chen?


Write the three missing numbers.


Here are two shapes on a square grid.

For each shape, write how many right angles it has.

|  |  |  |  |  |  |  |  |  |  |  |
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This chart shows how far she cycled each day.

Distance in miles


How much further did Amy cycle on Friday than on Wednesday?


How far did Amy cycle altogether on the three days she cycled the most?



Here are five more rectangular tiles.


Write the letters of all the tiles that have the same design as Megan's tile.


What is the distance between point $\mathbf{A}$ and point $\mathbf{B}$ ?


Point $\mathbf{C}$ is twice as far from point $A$ as it is from point $B$.

On the scale above, mark one place where point $C$ could be.



Draw two more faces to complete the net of the cuboid.



Shade more triangles on this shape so that $\frac{1}{3}$ is shaded.



The diagram shows the distances of mushrooms from the centre of the field.

$x$ is the centre of the field

- is a mushroom

How many mushrooms were more than 10 metres from the centre?


What fraction of the mushrooms were less than 10 metres from the centre?


Seb had some cherries.

Every day he ate 10 cherries and gave 5 away.

After he gave the last 5 cherries away, he had eaten 40 cherries altogether.

How many cherries did Seb have at the start?


Here are five number cards.


Use each card once to make every statement below correct.



15 One jug contains water and the other jug contains oil.


How much more oil is there than water?




Here is part of the morning bus timetable from Winton to Yansley.

| Winton | $9: 35$ | $9: 55$ | $10: 15$ | $10: 35$ |
| :--- | :---: | :---: | :---: | :---: |
| Ingham | $9: 45$ | $10: 05$ | $10: 25$ | $10: 45$ |
| Carston | $10: 01$ | $10: 21$ | $10: 41$ | $11: 01$ |
| Dubley | $10: 23$ | $10: 43$ | $11: 03$ | $11: 23$ |
| Yansley | $10: 55$ | $11: 15$ | $11: 35$ | $11: 55$ |

How many minutes does the bus take to get from Ingham to Dubley?


Megan is in Carston.

She wants to be in Yansley before 11:30

What is the time of the latest bus she can take from Carston?


One morning, the 10:35 bus from Winton gets to Carston 3 minutes early.

What time does it get to Carston?


## 19 Calculate $936 \div 36$




He makes this shape with four of his triangular tiles and three square tiles.


What is the perimeter of Chen's shape?


Write in the three missing numbers.


22 In this diagram $\mathbf{R}$ is an equal distance from $\mathbf{P}$ and $\mathbf{Q}$.


What are the coordinates of $\mathbf{R}$ ?


Megan's bag has 5 blue counters and 5 green counters.
Chen's bag has 10 blue counters, $\mathbf{5}$ green counters and 5 red counters.


Megan's bag


Chen's bag

They each take a counter from their bag without looking.

Chen says,
'I am more likely than Megan to take a blue counter.'

Is Chen correct?
Circle Yes or No.

Yes / No

Explain how you know.


## [END OF TEST]

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## Standards <br> \& Testing Agency

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