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## 2500/401

|  | KU | RE |
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| Paper 1 |  |  |
| Paper 2 |  |  |
| Total |  |  |

NATIONAL QUALIFICATIONS 2011

WEDNESDAY, 4 MAY
9.00 AM - 9.20 AM

MATHEMATICS
STANDARD GRADE
Foundation Level
Paper 1
Non-calculator

Fill in these boxes and read what is printed below.
$\square$

Forename(s)


Town


Surname


Date of birth


1 You may NOT use a calculator.
2 Answer as many questions as you can.
3 Write your working and answers in the spaces provided. Additional space is provided at the end of this question-answer book for use if required. If you use this space, write clearly the number of the question involved.

4 Full credit will be given only where the solution contains appropriate working.
5 Before leaving the examination room you must give this book to the Invigilator. If you do not, you may lose all the marks for this paper.


1. Work out the answers to the following.
(a) $£ 3 \cdot 82 \times 4$

| WORKING |  |
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|  |  |
| ANSWER | £ |

(b) $835-416$

## WORKING

ANSWER
(c) $\frac{1}{7}$ of 294

## WORKING

2. Last season, a striker in a football team scored a goal $50 \%$ of the time he shot at goal.

He shot at goal 76 times last season.
How many goals did he score?


## WORKING

3. Fiona sells vegetables at the Farmers' Market.


The potatoes, carrots and leeks she sells can be

- Scottish
- English

The table below shows one possible combination when buying these vegetables.

| Scottish | English | Scottish |
| :--- | :--- | :--- |
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Complete the table to show five other possible combinations.
4. John is taking part in an outdoor training exercise.

His task is to travel from START to FINISH visiting all the checkpoints, in order, as shown in the diagram below.

$\uparrow$
is checkpoint 1

John has been asked to write down the direction he is travelling at each stage of his journey.
John's list, part of the way through his journey, is shown below.
START, North, East, South-East, $\qquad$ ,
$\qquad$ , FINISH

Fill in the blanks to show John's entire journey.
5. Taiba has 17 bags of garden waste to take to her local recycling centre by car.


Taiba's car can hold 3 bags at one time.
How many trips will Taiba need to make to the recycling centre to dispose of all her garden waste?

6. Ancient Romans used letters to represent numbers.

The letters they used are shown below.

$$
\begin{array}{lr}
\mathrm{I}= & 1 \\
\mathrm{~V}= & 5 \\
\mathrm{X}= & 10 \\
\mathrm{~L}= & 50 \\
\mathrm{C}= & 100 \\
\mathrm{D}= & 500 \\
\mathrm{M}=1000
\end{array}
$$



The number MDVI can be worked out in the same way.
What number does MDVI represent?

## WORKING

7. Each day a hotel displays graphs showing the temperatures in some cities. The graph for Glasgow has been completed.
(a) Complete the graphs for Venice and Stockholm.

(b) How many degrees warmer is it in Venice than Stockholm?

8. Adam's plane is due to depart at 1630 .

(a) Write 1630 as a $\mathbf{1 2}$-hour time.

## ANSWER

(b) The latest check-in time for Adam's flight is 1 hour 15 minutes before departure.

It takes 45 minutes to drive from Adam's house to the airport.
Adam leaves his house at 1410 .
Will Adam be able to check in on time?
Give a reason for your answer.

## WORKING

| KU | RE |
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