

Monday 18 May 2009 - Afternoon
Time: 1 hour 30 minutes
Materials required for examination
Ruler graduated in centimetres and
millimetres, protractor, compasses,
pen, HB pencil, eraser.
Tracing paper may be used.

## Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
You must NOT write on the formulae page.
Anything you write on the formulae page will gain NO credit
If you need more space to complete your answer to any question, use additional answer sheets.

## Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 30 questions in this question paper. The total mark for this paper is 100
There are 24 pages in this question paper. Any blank pages are indicated.
Calculators must not be used

## Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.

## GCSE Mathematics (Linear) 1380

Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium $=\frac{1}{2}(a+b) h$


Volume of prism $=$ area of cross section $\times$ length






|  | The table s | s part | a bus tim | table fro | Shotto | o Alto |  | Leave blank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7. | Shotton | 0730 | 0800 | 0900 | 1000 | 1100 |  |  |
|  | Crook | 0745 | 0815 | 0915 | 1015 | 1115 |  |  |
|  | Prudhoe | 0758 | 0828 | 0928 | 1028 | 1128 |  |  |
|  | Hexham | 0815 | 0845 | 0945 | 1045 | 1145 |  |  |
|  | Alton | 0830 | 0900 | 1000 | 1100 | 1200 |  |  |
|  | A bus leaves Shotton at 0730 <br> (a) What time should it arrive at Alton? |  |  |  |  |  |  |  |
|  | Another bus leaves Prudhoe at 0828 <br> (b) How many minutes should it take to get to Hexham? |  |  |  |  |  |  |  |
|  | Serena lives in Crook. <br> She has to be in Hexham by quarter past 11 <br> (c) What is the time of the latest bus she can catch from Crook to arrive in Hexham by quarter past 11 ? |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | (1) <br> (Total 3 marks) | Q7 |
| 8. (a) Write the number 4117 in words. |  |  |  |  |  |  |  |  |
|  | (b) Write | number | 17 to th | nearest | ndred. |  | (1) |  |
|  |  |  |  |  |  |  | $\begin{array}{r} \text { (1) } \\ \text { (Total } 2 \text { marks) } \\ \hline \end{array}$ |  |
|  |  |  |  |  |  |  |  |  |




The diagram shows the speed of a car.
(a) Write down the speed of the car.

The scale below shows the amount of fuel in a tank.

(b) Write down the amount of fuel in the tank.
$\qquad$

When the tank is full, there are 7 gallons of fuel in the tank.
(c) Work out how much more fuel has to be added to the tank to fill it completely.
$\qquad$
The scale below shows the amount of fuel in a tor

12.

| City | Temperature |
| :---: | :---: |
| Cardiff | $-2^{\circ} \mathrm{C}$ |
| Edinburgh | $-4^{\circ} \mathrm{C}$ |
| Leeds | $2^{\circ} \mathrm{C}$ |
| London | $-1^{\circ} \mathrm{C}$ |
| Plymouth | $5^{\circ} \mathrm{C}$ |

The table gives information about the temperatures at midnight in 5 cities.
(a) Write down the lowest temperature.
$\qquad$
(b) Work out the difference in temperature between Cardiff and Plymouth.
(c) Work out the temperature which is halfway between $-1^{\circ} \mathrm{C}$ and $5^{\circ} \mathrm{C}$.

Leave
$\qquad$
$\qquad$

| (Total 3 marks) |  |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |




$14$


| 19. <br> (a) (i) Work out the size of the angle marked $p$. <br> (ii) Give a reason for your answer. <br> (b) Work out the size of the angle marked $q$. | Diagram NOT accurately drawn $\qquad$ - $\qquad$ <br> Diagram NOT accurately drawn |  |
| :---: | :---: | :---: |
|  |  |  |


| 20. There are 600 counters in a bag. <br> 90 of the counters are yellow. <br> (a) Work out 90 as a fraction of 600 Give your answer in its simplest form. |  | Leave blank |
| :---: | :---: | :---: |
| 180 of the 600 counters in the bag are red. <br> (b) Work out 180 as a percentage of 600 | (2) |  |
| The rest of the counters in the bag are blue or green. There are twice as many blue counters as green counters. <br> (c) Work out the number of green counters in the bag. | $\qquad$ <br> (2) |  |
|  | (Total 6 marks) |  |


23.






