

Tuesday 9 November 2010 - Morning
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

Items included with question papers

## 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 31 questions in this question paper. The total mark for this paper is 100 .
There are 28 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


2

## Answer ALL THIRTY ONE questions.

Write your answers in the spaces provided.
You must write down all stages in your working.
You must NOT use a calculator.

1. Lisa has 4 cards.

Each card has a number on it.


Lisa makes a number using all four cards.
(a) Write down the smallest number Lisa can make.

(1)
(b) Write down the largest number Lisa can make.

(1)
(c) Write down an odd number Lisa can make.

(1) Q
(Total 3 marks)







8. Here is part of a timetable for a bus.

| Blunsdon | 0718 | 0745 | 0833 |
| :--- | :---: | :---: | :---: |
| Cricklade | 0726 | 0753 | 0841 |
| Latton | 0731 | 0758 | 0846 |
| South Cerney | 0738 | 0805 | 0853 |
| Siddington | 0747 | 0814 | 0902 |
| Seven Springs | 0826 | 0851 | 0939 |
| Cheltenham | 0850 | 0912 | 1000 |

A bus leaves Blunsdon at 0745
(a) At what time should the bus arrive at Siddington?

Peter arrives at the Latton bus stop at 0835
He waits for the next bus to Seven Springs.
(b) (i) How many minutes should he wait?
(ii) At what time should Peter arrive at Seven Springs?

Marie gets the bus from Cricklade at 0726
(c) How many minutes should this bus take to travel from Cricklade to Cheltenham?
$\qquad$



13. This graph can be used to change between pounds ( $£$ ) and Hong Kong dollars.

(a) Use the graph to change $£ 5$ to Hong Kong dollars.
$\qquad$ Hong Kong dollars
(1)
(b) Use the graph to change 120 Hong Kong dollars to pounds.
£.. $\qquad$
(1) Q13



16
16.


18

| 19. Work out an estimate for the value of $27 \times 52.9$ | Leave blank |
| :---: | :---: |
| (Total 2 marks) |  |
| 20. There are 540 workers in a factory. <br> 240 of the workers are female. <br> $15 \%$ of male workers are more than 50 years of age. <br> Work out the number of male workers that are more than 50 years of age. | Q20 |
|  |  |


22. Louise spins a four-sided spinner and a five-sided spinner.


The four-sided spinner is labelled $2,4,6,8$
The five-sided spinner is labelled $1,3,5,7,9$
Louise adds the score on the four-sided spinner to the score on the five-sided spinner. She records the possible total scores in a table.

(a) Complete the table of possible total scores.
(b) Write down all the ways in which Louise can get a total score of 11 One way has been done for you.
$(2,9)$ $\qquad$

Both spinners are fair.
(c) Find the probability that Louise's total score is less than 6
(2)




29. (a) Expand and simplify $3(x+5)+2(5 x-6)$



