

## Paper Reference(s)

| Surname | Initial(s) |
| :--- | :--- |
| Signature |  |

# London Examinations IGCSE Mathematics 



Team Leader's use only


Paper 3H

## Higher Tier

Thursday 12 May 2005 - Morning
Time: 2 hours

## Materials required for examination Items included with question papers <br> Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

## Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.
The paper reference is shown at the top of this page. Check that you have the correct question paper. Answer ALL the questions in the spaces provided in this question paper.
Show all the steps in any calculations.

## Information for Candidates

There are 20 pages in this question paper. All blank pages are indicated.
The total mark for this paper is 100 . The marks for parts of questions are shown in round brackets: e.g. (2).

You may use a calculator.

## Advice to Candidates

Write your answers neatly and in good English.

| Page <br> Numbers | Leare <br> Blank |
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Turn over





8. In a sale at Bargain Buys, all the normal prices are reduced by $15 \%$. The normal price of a printer is $£ 240$
(a) Work out the sale price of the printer.
$\qquad$
(3)

In the same sale, the sale price of a laptop computer is $£ 663$
(b) Work out the normal price of the laptop computer.
$\qquad$
(3)
(Total 6 marks)
9. (a) Solve the inequality $2 x-3<5$
(b) $n$ is a positive integer.

Write down all the values of $n$ which satisfy the inequality $2 n-3<5$



13. The size of each exterior angle of a regular polygon is $18^{\circ}$.
(a) Work out how many sides the polygon has
(b) Work out the sum of the interior angles of the polygon.
(2) Q13





The graph of $y=x^{3}-7 x+9$ and the line with equation $y=k$, where $k$ is an integer, have 3 points of intersection.
(a) Find the greatest possible value of the integer $k$.
$\qquad$
(b) By drawing a suitable straight line on the grid, find estimates of the solutions of the equation $x^{3}-6 x-2=0$.
Give your answers correct to 1 decimal place.




