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**Pearson Edexcel Level 1/Level 2 GCSE (9–1)**

**Wednesday 6 November 2024**

Morning (Time: 1 hour 30 minutes)

Paper  
reference

**1MA1/1H**

**Mathematics**

**PAPER 1 (Non-Calculator)**

**Higher Tier**



**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

### Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤

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# Edexcel Gcse 7th November Calculator Paper

**Collins Uk,Su Nicholson,Russell  
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web the formal titration as described by sørensen 1 has been most useful in the determination of amino acids and especially in following the course of hydrolysis of proteins

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web formal titration a method of titrating the amino groups of amino acids by adding formaldehyde to the neutral solution the formaldehyde reacts with the  $NH_2$  group liberating an equivalent quantity of  $H^+$  which may

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web experiment 1 estimation of glycine by sorenson's formal titration aim to estimate the amount of amino acid present in the given solution principle the acid group present in the glycine can be titrated with  $NaOH$