

1MA1 Higher themed papers: Solving equations: Linear

Write your name here						
Surname	Other names					
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre Number <table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
	Candidate Number <table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
Mathematics Solving equations: Linear						
	Paper Reference 1MA1					
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.						
Total Marks <table border="1"><tr><td></td></tr></table>						

Instructions

- Use **black** ink or ball-point pen.
- **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.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is **14**. There are **4** questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- 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.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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1 Solve $\frac{5 - x}{2} = 2x - 7$

$x = \dots\dots\dots$

(Total for Question 1 is 3 marks)

2 Solve $5x - 6 = 3(x - 1)$

$x = \dots\dots\dots$

(Total for Question 2 is 3 marks)

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3 (a) Solve $\frac{9+x}{7} = 11 - x$

$x = \dots\dots\dots$
(3)

(b) Simplify $\frac{4(y+3)^3}{(y+3)^2}$

$\dots\dots\dots$
(1)

(Total for Question 3 is 4 marks)

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4 Solve $\frac{3x - 2}{4} - \frac{2x + 5}{3} = \frac{1 - x}{6}$

$x = \dots\dots\dots$

(Total for Question 4 is 4 marks)

TOTAL MARKS FOR PAPER: 14