

Write your name here	
Surname	Other names
Centre Number	Candidate Number
<b>Pearson Edexcel</b> <b>Level 1/Level 2 GCSE (9–1)</b>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>
<h1 style="margin: 0;">Mathematics</h1> <h2 style="margin: 0; color: #0070C0;">Solve Linear Equations</h2>	
<b>Foundation Tier</b>	Paper Reference <b>1MA1</b>
<b>You must have:</b> Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	Total Marks

### 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  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

### Information

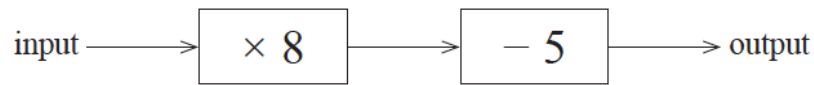
- The total mark for this paper is **41**. There are **17** questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- The marks for **each** question are shown in brackets – *use this as a guide as to how 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.

## 1MA1 Foundation themed papers: Solve linear equations

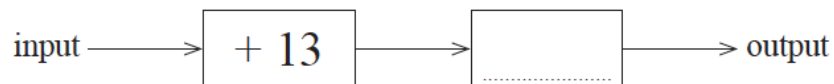
1 Here is a number machine.



(a) Work out the value of  $P$ , when the input is 6

.....  
(1)

Here is a different number machine.



When the input is 17, the output is 10

(b) Complete the number machine.

(1)

**(Total for Question 1 is 2 marks)**

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**2**

(a) Solve  $t + t + t = 12$

$t = \dots\dots\dots$   
**(1)**

(b) Solve  $x - 2 = 6$

$x = \dots\dots\dots$   
**(1)**

(c) Solve  $6w + 2 = 20$

$w = \dots\dots\dots$   
**(2)**

**(Total for Question 2 is 4 marks)**

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**3**

(a) Solve  $f + 2f + f = 20$

$f = \dots\dots\dots$   
**(1)**

(b) Solve  $18 - m = 6$

$m = \dots\dots\dots$   
**(1)**

**(Total for Question 3 is 2 marks)**

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**4**

(a) Solve  $x + x + x = 51$

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$$x = \text{.....} \quad \mathbf{(1)}$$

(b) Solve  $\frac{y}{4} = 3$

$$y = \text{.....} \quad \mathbf{(1)}$$

(c) Solve  $2f + 7 = 18$

$$f = \text{.....} \quad \mathbf{(1)}$$

**(Total for Question 4 is 3 marks)**

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**5** Solve  $5p = 3p + 8$

$$p = \text{.....}$$

**(Total for Question 5 is 2 marks)**

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**6** (a) Solve  $4a = 12$

$a = \dots\dots\dots$   
**(1)**

(b) Solve  $3y + 7 = 22$

$y = \dots\dots\dots$   
**(2)**

**(Total for Question 6 is 3 marks)**

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**7** Solve  $7f + 6 = 27$

$f = \dots\dots\dots$

**(Total for Question 7 is 2 marks)**

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**8** Solve  $3(x - 4) = 12$

$x = \dots\dots\dots$

**(Total for Question 8 is 2 marks)**

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**9** Solve  $4(x - 6) = 44$

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$x = \dots\dots\dots$

**(Total for Question 9 is 2 marks)**

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**10** Solve  $3(m - 4) = 21$

$m = \dots\dots\dots$

**(Total for Question 10 is 2 marks)**

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**11** Solve  $\frac{y}{4} = 10.5$

$y = \dots\dots\dots$

**(Total for Question 11 is 1 mark)**

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**12** Solve  $4(x - 5) = 18$

$x = \dots\dots\dots$

**(Total for Question 12 is 2 marks)**

**13** Solve  $9(c - 6) = 63$

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$c = \dots\dots\dots$

**(Total for Question 13 is 2 marks)**

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**14** (a) Solve  $4c + 5 = 11$

$c = \dots\dots\dots$   
**(2)**

(b) Solve  $5(e + 7) = 20$

$e = \dots\dots\dots$   
**(2)**

**(Total for Question 14 is 4 marks)**

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**15** Solve  $5x - 6 = 3(x - 1)$

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$x = \dots\dots\dots$

**(Total for Question 15 is 3 marks)**

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**16** Solve  $4x + 3 = 7 - x$

$x = \dots\dots\dots$

**(Total for Question 16 is 2 marks)**

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

$x = \dots\dots\dots$

**(Total for Question 17 is 3 marks)**

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**TOTAL MARKS FOR PAPER: 41**