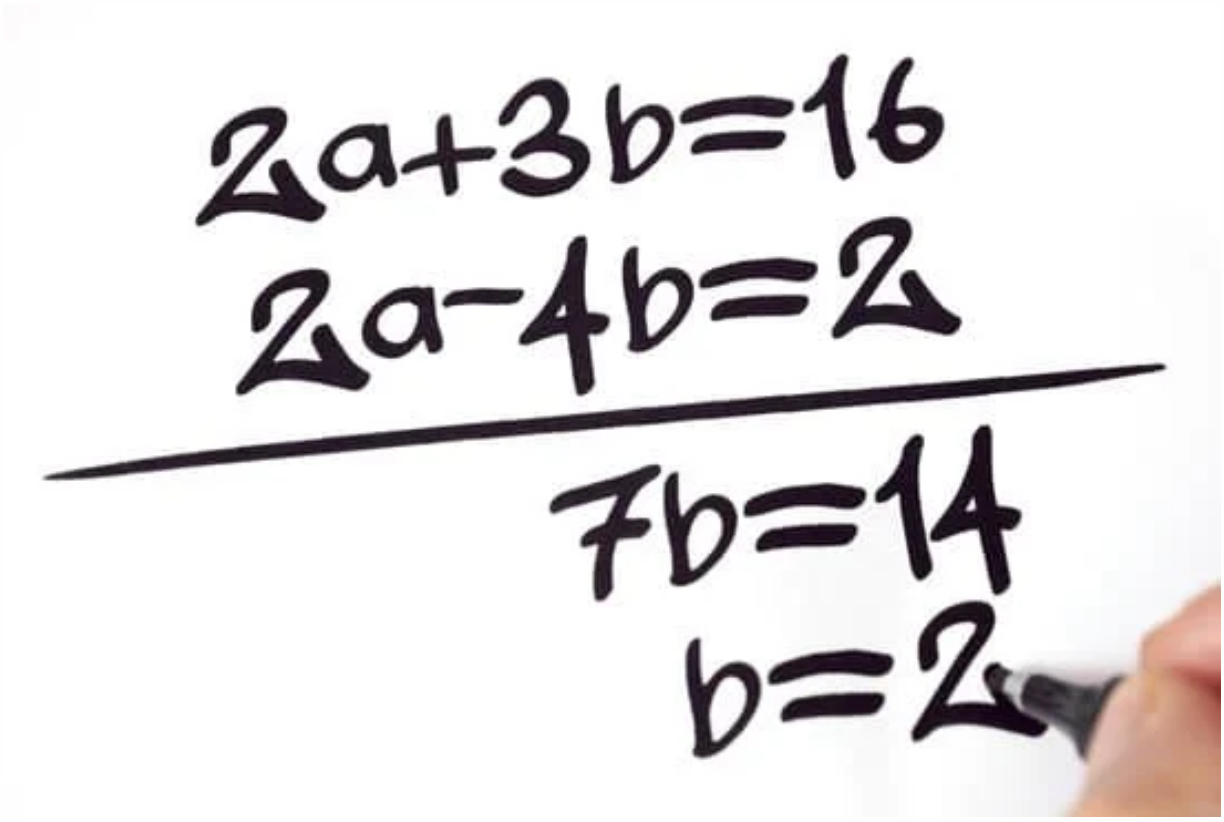
EDEXCEL IGCSE MATHEMATICS

UNIT 1 (MODULAR)

ALGEBRA – LINEAR EQUATIONS

QP & MS (2018 - 2025)



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EDEXCEL IGCSE MATHEMATICS MODULAR FOR MAY & OCT 2026

by Sir Muhammad Abdullah Shah

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1. June 2025 1H/Q6a

(a) Solve $x - 4 = \dfrac{3 + 2x}{6}$

Show clear algebraic working.

$x =$ .....

(3)

2. June 2025 1HR/Q15a

(a) Solve $\dfrac{5a + 8}{3} - \dfrac{2a + 5}{4} = 23$

Show clear algebraic working.

$a =$ .....

(4)

3. June 2024 1H/Q6b

(a) Expand and simplify $(m + 5)(m - 8)$

.....

(2)

4. Nov 2023 1H/Q2b

There are 56 metal bars in a box.
Each metal bar is gold or silver or zinc.

y metal bars are gold.
$(3y + 7)$ metal bars are silver.
$(2y - 5)$ metal bars are zinc.

(b) Work out the number of metal bars that are zinc.
Show clear algebraic working.

.....

(4)

5. Jan 2023 1H/Q2

Solve $3(2 - 4x) = 5 - 8x$
Show clear algebraic working.

$x =$ .....

(Total for Question 2 is 3 marks)

6. June 2022 1H/Q5b

(b) Solve $2x - 3 = \frac{3x - 5}{4}$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 5 is 5 marks)

7. Jan 2021 1H/Q5b

(b) Solve $4 - 3x = \frac{5 - 8x}{4}$

Show clear algebraic working.

$x =$ .....

(3)

8. Nov 2020 1H/Q7a

(a) Solve $5(4-x)=7-3x$
Show clear algebraic working.

$x =$ .....
(3)

9. Nov 2020 1HR/Q3c

(c) Solve $\frac{5x-3}{4}=2x+3$
Show clear algebraic working.

$x =$ .....
(3)

10. Jan 2020 1H/Q7d

(d) Solve $3(2x - 5) = \frac{9 - x}{2}$

Show clear algebraic working.

$x =$ .....

(4)

11. June 2019 1H/Q12b

(b) Solve $\frac{4m+9}{3} = 7 - 2m$

Show clear algebraic working.

$m =$ .....

(4)

12. June 2019 1HR/Q4

Solve $4x - 13 = 17 + 8x$

$x =$ .....

(Total for Question 4 is 2 marks)

13. Jan 2019 1H/Q1c

(c) Solve $y = \frac{2y+1}{5}$

Show clear algebraic working.

$y =$

(3)

14. June 2018 1H/Q3c

(c) Solve $5(x + 3) = 3x - 4$

Show clear algebraic working.

$x =$ .....

(3)

15. Specimen 1H/Q4d

(d) Solve $\frac{6x-5}{2} = x + 1$

Show clear algebraic working.

$x =$ .....

(3)

MARKING SCHEME

1. June 2025 1H/Q6a

6	(a)	$6x - 24 = 3 + 2x$ **or** $x - 4 = \frac{3}{6} + \frac{2}{6}x$ oe		3	M1	for correct removal of fraction and expansion of bracket in a correct equation **or** separating fraction (RHS) in an equation
		$6x - 2x = 3 + 24$ **or** $4x = 27$ **or** $-24 - 3 = 2x - 6x$ **or** $-27 = -4x$ oe **or** $x - \frac{2}{6}x = \frac{3}{6} + 4$ oe **or** $-4 - \frac{3}{6} = \frac{2}{6}x - x$ oe			M1ft	(dep on 4 terms) correctly rearranging their 4 term equation for terms in x on one side of equation and number terms on the other
		Working required	$\frac{27}{4}$		A1	oe eg 6.75 or $6\frac{3}{4}$, dep on M1

2. June 2025 1HR/Q15a

15	(a)	eg $12\times\frac{5a+8}{3} - 12\times\frac{2a+5}{4} = 12\times 23$ **or** eg $4(5a+8) - 3(2a+5) = 12\times 23 (= 276)$ **or** eg $\frac{4(5a+8)}{12} - \frac{3(2a+5)}{12} (= 23)$ **or** eg $\frac{4(5a+8) - 3(2a+5)}{12} (= 23)$		4	M1	for clear intention to multiply all terms by 12 or a multiple of 12 **or** to express LHS as two fractions over 12 or a multiple of 12 **or** as a single fraction with a denominator of 12 or a multiple of 12 (If expanded numerator, allow one sign error **or** one numerical error but not both) Accept $\frac{20a+32}{12} - \frac{6a+15}{12} (= 23)$ or $\frac{20a+32-6a+15}{12} (= 23)$ or $\frac{20a+32-6a+15}{12} (= 23)$
		eg $20a + 32 - 6a - 15 = 12\times 23 (= 276)$ oe **or** $14a + 17 = 276$			M1	ft for expanding brackets and multiplying both sides by denominator with no more than one error in total leading to a linear equation Accept a linear equation leading to $14a - 17 = 276$ oe **or** $14a + 47 = 276$ oe **or** $26a + 17 = 276$ This mark implies the previous M mark if not already awarded
		eg $20a - 6a = 276 - 32 + 15$ oe or $14a = 259$			M1	ft dep on previous M1 for correctly rearranging terms in a on one side and number terms on the other side
		Working required	18.5		A1	oe dep on M2 eg $\frac{259}{14}$ **or** $\frac{37}{2}$

3. June 2024 1H/Q6b

15	(a)		$(x =) 2$	1	B1 Accept $x = 2$ and $x \neq 2$ x cannot be 2 Any response that contains 2 is also acceptable **DO NOT ACCEPT WHEN WRITTEN WITH INEQUALITY SIGNS** $x > 2$ or $x < 2$ or $x \geq 2$ or $x \leq 2$ **DO NOT ACCEPT** 2 with another number eg 2 & 3

4. Nov 2023 1H/Q2b

(b)			2	M1 ft their table dep on B1 scored in (a) for 4 or 5 points plotted correctly (tolerance within or on the circles on the overlay)

5. Jan 2023 1H/Q2

2	$6-12x$ or $2-4x=\frac{5}{3}-\frac{8}{3}x$		3	M1 for expansion of bracket on the LHS or dividing the RHS by 3 with two terms
	$6-5=12x-8x$ or $1=4x$ or $-12x+8x=5-6$ oe or $-4x=-1$ or $\frac{8}{3}x-4x=\frac{5}{3}-2$ oe or $2-\frac{5}{3}=-\frac{8}{3}x+4x$ oe			M1 ft (dep on 4 terms) for terms in x on one side of equation; number terms on the other
	Working required	$\frac{1}{4}$		A1 oe dep on M1 awarded
				Total 3 marks

6. June 2022 1H/Q5b

(b)	$8x-12$ **or** $\frac{3}{4}x-\frac{5}{4}$ oe or $0.75x-1.25$ oe		3	M1 for correct multiplication by 4 **or** separate fractions on the RHS
	$8x-3x=-5+12$ oe or $5x=7$ oe **or** $2x-\frac{3}{4}x=-\frac{5}{4}+3$ or $2x-0.75x=-1.25-3$ oe			M1 ft (dep on 4 terms) for terms in x on one side of equation and number terms on the other
		$\frac{7}{5}$		A1 oe dep on M1 1.4 or $1\frac{2}{5}$ oe
				Total 5 marks

7. Jan 2021 1H/Q5b

(b)	$4\times(4-3x)=5-8x$ oe **or** $16-12x=5-8x$ oe **or** $4-3x=\frac{5}{4}-2x$ oe		3	M1 for removal of fraction in a correct equation
	e.g. $16-5=12x-8x$ **or** $11=4x$ oe **or** $4-\frac{5}{4}=3x-2x$			M1 for terms in x on one side **and** numbers on the other side in an equation, allow correct rearrangement of their equation in the form $ax+b=cx+d$
		2.75		A1 (dep on M1) oe e.g. $2\frac{3}{4}$ or $\frac{11}{4}$
				Total 5 marks

8. Nov 2020 1H/Q7a

7	(a)	$20-5x\ (=7-3x)$		3	M1 for expansion of bracket

9. Nov 2020 1HR/Q3c

(c)	$5x-3=4(2x+3)$ oe **or** $\frac{5x}{4}-\frac{3}{4}=2x+3$ oe		3	M1 for correctly removing the denominator, condone missing brackets
	e.g. $5x-8x=12+3$ **or** $-3x=12+3$ **or** $8x-5x=-12-3$ **or** $3x=-12-3$ **or** $-\frac{3}{4}-3=2x-\frac{5x}{4}$ **or** $-\frac{15}{4}=\frac{3x}{4}$			M1 for a correct rearrangement with terms in x on one side and numbers on the other, allow correct rearrangement of their equation in the form $ax+b=cx+d$
		-5		A1 dep on at least M1 SCB2 for an answer of $x=-2$ coming from $5x-3=8x+3$ **or** $x=5$ coming from $5x-3=2x+12$
				Total 6 marks

10. Jan 2020 1H/Q7d

	(d)	E.g. $6x-15$ or $12x-30$ oe		4	M1 for expansion of a correct bracket
		$2\times3(2x-5)=9-x$ oe **or** $2(\text{'}6x-15\text{'})=9-x$ oe **or** $3(2x-5)=\frac{9}{2}-\frac{x}{2}$ oe			M1 for removal of fraction or separating fraction (RHS) in an equation
		$12x+x=9+30$ oe **or** $6x+\frac{x}{2}=\frac{9}{2}+15$ oe			M1 ft (dep on 4 terms) for terms in x on one side of equation; number terms on the other
			3		A1 dep on at least M2 awarded
					Total 9 marks

11. June 2019 1H/Q12b

	(b)	$4m+9=3(7-2m)$		4	M1 for removing fraction
		$4m+9=21-6m$			M1 for correct expansion of bracket in a correct equation
		$4m+6m=21-9$ **or** $10m=12$ **or** $-21+9=-6m-4m$ **or** $-10m=-12$			M1 for a correct equation with m terms isolated on one side ft their equation if first M1 awarded
			$\frac{12}{10}$ oe		A1 dep on at least M2 [SC: B2 for an answer of $m=2$ with working shown (from $4m+9=21-2m$ oe) **or** $m=-0.2$oe with working shown (from $4m+9=7-6m$ oe)]
		Alternative			
		$\frac{4}{3}m+3=7-2m$		4	M1 Division of each term on LHS by 3
		$\frac{4}{3}m+2m=7-3$ oe			M1 for a correct equation with m terms isolated on one side ft their equation if first M1 awarded

12. June 2019 1HR/Q4

4	e.g. $4x-8x=17+13$ oe		2	M1 For collecting terms in x and number terms on either side of a correct equation
		-7.5		A1 oe e.g. $-\frac{30}{4}$
				Total 2 marks

13. Jan 2019 1H/Q1c

(c)	$5y=2y+1$ **or** $y=\frac{2y}{5}+\frac{1}{5}$			M1 for a correct first step
	E.g. $5y-2y=1$ **or** $3y=1$ **or** $3y-1=0$ **or** $\frac{3y}{5}=\frac{1}{5}$			M1 for collecting terms in y in a correct equation
		$\frac{1}{3}$ oe	3	A1 dep on at least M1 for $\frac{1}{3}$ oe e.g. $0.\dot{3}$, 0.3333…

14. June 2018 1H/Q3c

c	$5x + 15 = 3x - 4$ **or** $x + 3 = \frac{3x}{5} - \frac{4}{5}$ e.g. $5x - 3x = -4 - 15$	$-\frac{19}{2}$ oe	3	M1	for removing bracket in a correct equation or dividing all terms by 5 in a correct equation
				M1	ft from $ax + b = cx + d$ for correctly isolating terms in x on one side of equation and constant terms on the other side
				A1	dep on at least M1

15. Specimen 1H/Q4d

d	$6x - 5 = 2(x + 1)$ **or** $6x - 5 = 2x + 2$			M1
	$6x - 2x = 2 + 5$			M1
		1.75	3	A1 oe eg. $\frac{7}{4}$ dep on at least M1 scored
				Total 9 marks