

Substitution

November 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
8	315	M1	for 45×7	
		A1	cao	

November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
12 (a)(i)	26	M1 A1	for substitution eg $2 \times 3 + 4 \times 5$ or $6 + 20$ cao	
(ii)	13	M1 A1	for substitution eg $38 = 2g + 4 \times 3$ or a complete numerical method eg $(38 - 4 \times 3) \div 2$ or for a correct first step to rearrange eg $P - 4h = 2g$ or $\frac{P}{2} = g + \frac{4h}{2}$ oe	
(b)	-11	M1 A1	for $3 \times -3 = -9$ oe or a full substitution eg $(3 \times -3) - 2$	Condone absence of brackets

June 2024 Paper 2

Question		Answer	Mark	Mark scheme	Additional guidance
13	(a)	$6cd$	B1	for $6cd$ or $6dc$ or $cd6$ oe	Inclusion of \times scores B0, eg $6 \times cd$ oe
	(b)	-5	M1 A1	for $3 + 2 \times -4 (= 3 - 8)$ cao	

June 2022 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
14	19	M1 A1	for a correct substitution, eg $(y =) 6 \times 4 - 5$ cao	

June 2020 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
15 (a)	-13	M1 A1	for substitution eg 3×5 and 4×-7 or 15 and -28 cao	$3 \times 5 (= 15)$ and $4 \times -7 (= -28)$ may be seen separately but both must be seen for the award of M1 35 and $4-7$ do not get the mark unless multiplication is shown eg $35 = 15$ is evidence of multiplication and should not be seen as choice
(b)	5	M1 A1	for $38 = 3 \times 6 + 4y$ or $38 - 18 (=20)$ or for a complete method to make y the subject eg $y = \frac{T - 3x}{4}$ cao	eg $y = (T - 3x) \div 4$

June 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
22	4	M1 A1	for method to use formula, eg $72 \div 6 (= 12)$ or $72 \div 9 (= 8)$ cao	Can be implied by $\frac{72}{6}$ or $\frac{72}{9}$

June 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
23 (a)	25	M1	for $(T=) 4 \times (-3)^2 - 11$ or $4 \times (-3)^2 = 36$	Can accept missing brackets May be in unsimplified form, eg $d - 4 = 3p + 4 - 4$
		A1	cao	
(b)	$p = \frac{d-4}{3}$ oe	M1	for a correct first step, eg. $d - 4 = 3p$ or $\frac{d}{3} = p + \frac{4}{3}$ or for $\frac{d-4}{3}$ as answer	
		A1	for $p = \frac{d-4}{3}$ oe	

June 2024 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
29 (a)	15	M1	for correct substitution, eg $40 - (-5)^2$	Condone missing brackets
(b)	$h = 3p + 5$	M1	for a correct first step, eg $3p = h - 5$ or for isolating the $\frac{h}{3}$ term, eg $p + \frac{5}{3} = \frac{h}{3}$	Award M1 for $3p + 5$ without seeing $h = 3p + 5$
		A1	for $h = 3p + 5$ oe eg $h = 3\left(p + \frac{5}{3}\right)$	