

# Expanding and Factorising

# June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
13 (a)	$5a$	B1	cao	
(b)	$19 - 2b + 5c$	M1	for $-2b$ or $5c$	
		A1	for $19 - 2b + 5c$	Accept the correct 3 terms in any order The A mark is lost for any incorrect subsequent working, eg. $17b + 5c$
(c)	$2(4d - 3)$	B1	for $2(4d - 3)$ oe	Accept $(4d - 3)^2$ or $2 \times (4d - 3)$ or $(4d - 3) \times 2$ Condone missing final bracket, eg $2(4d - 3$

November 2024 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
15 (a)	$3(2a + 5)$	B1		
(b)	2	M1	for correct expansion of brackets, ie $12y + 4$  <b>or</b> dividing throughout by 4 as a first step to solve equation, eg $3y + 1 = 28 \div 4$	For M marks step must be carried out not just intention shown.  For example, if you see $\begin{array}{r} 4(3y + 1) = 28 \\ \div 4 \qquad \qquad \div 4 \end{array}$ Award M1 for: $3y + 1 = k$ with $k \neq 28$ or 112  fit their equation of the form $ay \pm b = c$  For example, if you see $\begin{array}{r} 12y + 4 = 28 \\ -4 \qquad \qquad -4 \end{array}$ Award M1 for: $12y = k$ with $k \neq 28$ or 32
		M1	for isolating terms in y, eg $12y = 28 - 4$ <b>or</b> $3y = 7 - 1$	
		A1	cao	

# November 2021 Paper 1

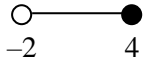
Question	Answer	Mark	Mark scheme	Additional guidance
15 (a)	$2a + 2d$	B1	cao	Accept $2 \times a + 2 \times d$
	(b) $y(6y - 5)$	B1	cao	Accept $y \times (6y - 5)$
	(c) 11	M1  A1	for isolating $x$ terms, eg $4x = 37 + 7$ or $4x = 44$ <b>or</b> for $x - \frac{7}{4} = \frac{37}{4}$ <b>or</b> for $37 + 7 = 44$ followed by “44” $\div 4$ (= 11)  cao	

## June 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
17 (a)	$12 - 6x$	B1	for $12 - 6x$ (accept $-6x + 12$ )	
(b)	16	M1	for a correct first step, eg. $3y = 12 \times 4 (= 48)$ or $\frac{y}{4} = \frac{12}{3}$	Do not accept ambiguous algebraic expressions
		A1	cao	
(c)	$2(2p + 3)$	B1	cao	Do not accept equivalent expressions not fully factorised



# November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
19 (a)	$5w(3w - 1)$	B2  (B1	for $5w(3w - 1)$  for $5(3w^2 - w)$ <b>or</b> $w(15w - 5)$ <b>or</b> $5w(aw - b)$ where $a$ and $b$ are integers or $(3w - 1)$ as a factor	
(b)		M1  A1	for drawing a line from $-2$ to $4$ or for an open circle at $-2$ or for a closed circle at $4$  cao	

# June 2020 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
19 (a)	$x^2 - 4x$	B1	cao	
(b)	$5(3y - 2)$	B1	cao	
(c)	9	M1	for a correct first stage, eg. expanding brackets, $7 \times f - 7 \times 5 (= 28)$ oe or for division of both sides by 7, eg. $\frac{7(f-5)}{7} = \frac{28}{7}$	
		A1	cao	

## June 2024 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
21 (a)	$3(2x - 5)$	B1	for $3(2x - 5)$	
(b)	$m(m + 5)$	B1	for $m(m + 5)$	

June 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
21 (a)	$x^{15}$	B1	cao	
(b)	$40 - 10x$	M1	for method to expand one bracket or collect like terms, eg $4 \times x + 4 \times 3 (= 4x + 12)$ <b>or</b> $7 \times 4 - 7 \times 2x (= 28 - 14x)$ <b>or</b> $4 \times x - 7 \times 2x (= 4x - 14x)$ <b>and</b> $4 \times 3 + 7 \times 4 (= 12 + 28)$	
(c)	$3x^2(5x + y)$	A1 M1	oe for $3(5x^3 + x^2y)$ <b>or</b> $x(15x^2 + 3xy)$ <b>or</b> $3x(5x^2 + xy)$ <b>or</b> $x^2(15x + 3y)$ <b>or</b> $3x^2(ax + by)$	Where $a \geq 1$ and $b \geq 1$
		A1	cao	

November 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
22 (a)	$13y - 1$	M1	for method to expand one bracket or collect like terms eg $3 \times 2y - 3 \times 5 (= 6y - 15)$ <b>or</b> $7 \times y + 7 \times 2 (= 7y + 14)$ <b>or</b> $3 \times 2y + 7 \times y (= 6y + 7y)$ <b>or</b> $3 \times -5 + 7 \times 2 (= -15 + 14)$	May be implied by $13y$ <b>or</b> $-1$
		A1	oe	
(b)	$3x(2x + 5)$	B2	oe	
		(B1	for $3(2x^2 + 5x)$ <b>or</b> $x(6x + 15)$ <b>or</b> $3x(ax + b)$ )	
(c)	$g = \frac{f-11}{3}$	M1	for correct first step to rearrange eg $f - 11 = 3g + 11 - 11$ or $f - 11 = 3g$ <b>or</b> eg $\frac{f}{3} = \frac{3g}{3} + \frac{11}{3}$ <b>or</b> $-3g = 11 - f$ <b>or</b> answer ambiguously shown, eg $g = f - 11 \div 3$ <b>or</b> given as $\frac{f-11}{3}$	May be seen in different equivalent form
		A1	oe	