Q1. 2017

12 A football team has P points.

$$P = 3W + D$$

W is the number of wins

D is the number of draws

A)

12(a)	20	B1	allow $P = 20$
	Additional Guidance		

B)

12(b)	53 – 11 or 42 or 33 × 3 or 99 or 11 × 2 or 33 – 11 or 22	M1	
	their 42 ÷ 3 or 14 or their 99 – 53 – their 22 or (their 22 × 3) – their 42 or 24	M1dep	oe eg build up - allow one error
	33 – 11 – their 14 or their 24 ÷ 3	M1dep	dep on M1M1
	8	A1	
	Additional Guidance		
	3 × 14 + 11 = 53		M2

Q2. (2019)

19 You are given that $4a - 2b = 10$

(A)

19(a)	5	B1	
	Additional Guidance		
	Condone 10 – 5 = 5		B1
	Condone $x = 5$		B1
	$\frac{10}{2}$		B0

(B)

19(b)	–10	B1	

(C)

19(c)	Unsimplified expression in a, b and c which would evaluate to 23	M1	eg $2(4a - 2b) + a + c$ or $8a - 4b + a + c$ or $11(a + c) - (4a - 2b)$ or $11a + 11c - 4a + 2b$
	Simplified expression in a, b and c which would evaluate to 23	A1	eg $9a - 4b + c$ $7a + 2b + 11c$ SC2 Values assigned to a, b and c which satisfy original equations and expression given which has value 23 eg $a = 3, b = 1, c = 0$ and $7a + 2b + c$
	Additional Guidance		
	There are infinitely many correct solutions. Allow solutions where the coefficients are not integers if initial working is shown. eg $3(4a - 2b) - \frac{7}{3}(a + c) = \frac{29}{3}a - 6b - \frac{7}{3}c$		M1A1
	$5a - 2b + c + 10 = 23$		M1A1
	Condone '= 23' after the expression		
	Answer using only two variables eg $2.3(4a - 2b)$		M0A0

Q3. (2023)

8 $T = 5P - W$

(A)

Q	Answer	Mark	Comments
8(a)	5×4 or 20	M1	oe
	18	A1	

(B)

Q	Answer	Mark	Comments
8(b)	$-40 + 10$ or -30 or $-40 = 5P - 10$ or $P = \frac{T + W}{5}$	M1	
	their $-30 \div 5$	M1dep	
	-6	A1	SC2 -10 with -50 seen
	Additional Guidance		
	Embedded answer of -6		M1M1A0
	SC2 -10 with -50 seen for $-40 + 10 = -50$ and then $\div 5$		
	$-40 = 5P - 10$ may use a different letter or symbol for P but not T or W		

Q4. (2024)

11 A window cleaner uses this formula.

$C = 2W + 5$

C = cost, in £, for the customer

W = number of windows to be cleaned

Q	Answer	Mark	Comments
11(a)	2×6 or 12 or 1700	M1	oe
	17(.00)	A1	accept 1700p