1 (a) Simplify $12a + 3a - 7a$	
	(1)
(b) Simplify $8 \times 3b$	
(c) Solve $\frac{c}{3} = 9$	(1)
3	$c = \dots $
	(Total for Question 1 is 3 marks)
2 (a) Simplify $5p \times 9k$	
	(1)
(b) Simplify $3e + 2f + 8e - 7f$	
(a) Solve $2d + 7 = 16$	(2)
(c) Solve $2d + 7 = 16$	
	$d = \dots (2)$
	(Total for Question 2 is 5 marks)

_			
3	(a) Simplify $12g - 8e - 5g + 6e$		
		(2)	)
	A = 3b - 5c (b) Work out the value of A when $b = 12$ and $c = 4$		
		A =	
	(c) Solve $4p + 9 = 24$	(2)	
		$p = \dots (2)$	
_		(Total for Question 3 is 6 marks)	)
			ı

4	(a) Simplify $y \times y \times y$	
	(b) Simplify $3c \times 2d$	(1)
	(c) Simplify $2k - 4k + 3k$	(1)
		(1)
		(Total for Question 4 is 3 marks)
5	(a) Simplify $6p + 2t + p - 3t$	
	A = 8x - 3y	(2)
	(b) Work out the value of A when $x = 5$ and $y = 4$	
		$A = \dots (2)$
_		(Total for Question 5 is 4 marks)

6	(a) Simplify	10 <i>y</i> – <i>y</i>	
	(b) Simplify	$3p \times 4p$	(1)
	(c) Solve	7x = 42	(1)
	(d) Solve	n + 6 = 5	x =  (1)
	(e) Simplify	8c + 5d - 2c - 3d	n =  (1)
			(Total for Overtion 6 is 6 morks)
			(Total for Question 6 is 6 marks)

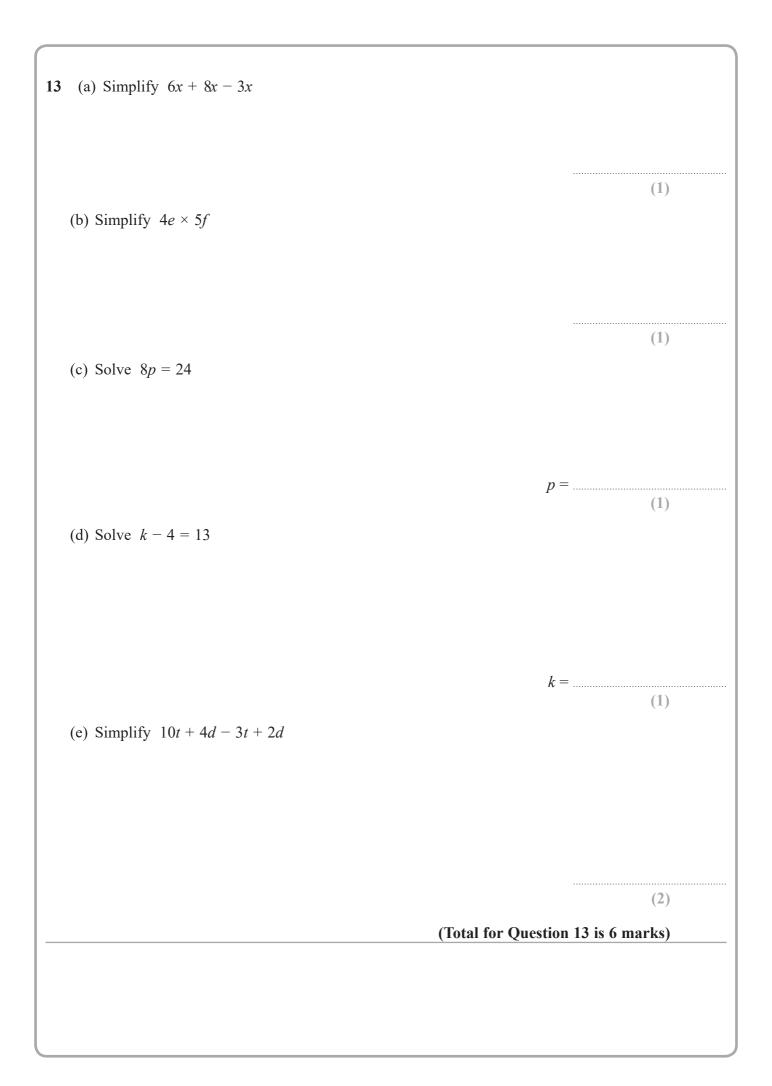
7	(a) Simplify $c \times c \times c \times c \times c$	
	(b) Solve $5 + x = 12$	(1)
	(c) Solve $\frac{y}{6} = 3$	x =  (1)
	(d) Expand $5(2 + 3h)$	<i>y</i> =(1)
	(e) Factorise $g^2 + 7g$	(1)
		(Total for Ouestion 7 is 5 marks)
		(Total for Question 7 is 5 marks)

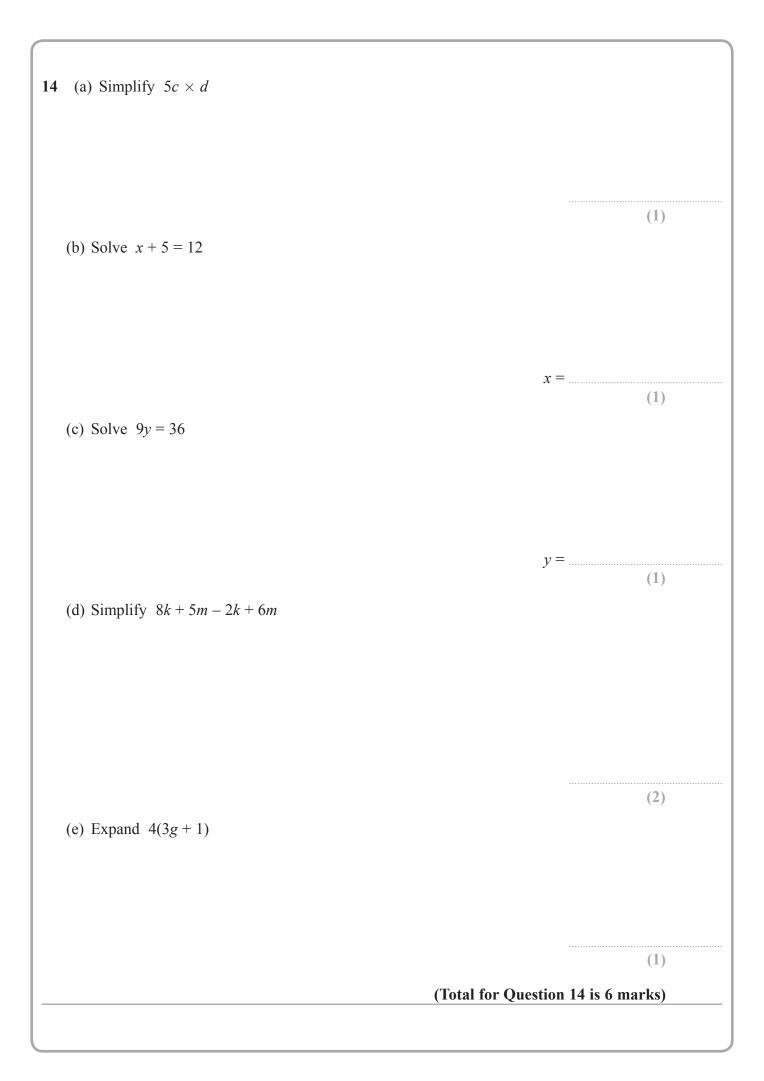
8	(a) Simplify $a \times a \times a \times a \times a$	
	(b) Simplify $8b \times 3c$	(1)
	(c) Expand $3(x+4)$	(1)
	$0 = 5v^2$	(1)
	$Q = 5v^{2} - w$ (d) Work out the value of Q when $v = \frac{1}{2}$ and $w = \frac{1}{4}$	
		$Q = \dots (2)$
_		(Total for Question 8 is 5 marks)

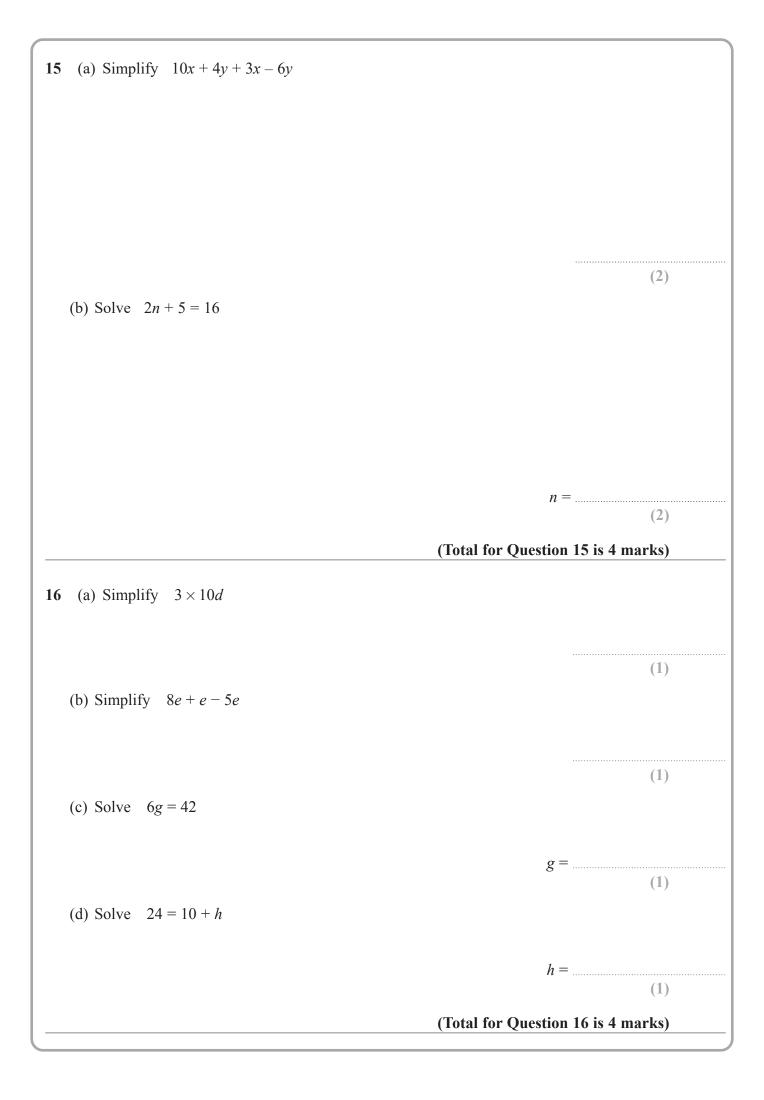
9	(a) Simplify $a + a + a + a$	
	(b) Simplify $3c \times 5c$	(1)
	(c) Simplify $3e + 7g + 5e - 4g$	(1)
	(d) Solve $x - 9 = 14$	(2)
	x =  (e) Factorise $5y + 15$	(1)
	(f) Make y the subject of $H = 3y - w$	(1)
	(Total for Question	(2)

10	(a) Simplify $3r \times 5t$	
	(b) Solve $4x + 5 = 27$	(1)
		$x = \dots (2)$
	P = 7w - 5y (c) Find the value of P when $w = 2$ and $y = 4$	
	$Q = 2u^2 - 5$ (d) Find the value of $Q$ when $u = -3$	P =  (2)
		Q =  (2) (Total for Question 10 is 7 marks)

11 (a) Simplify $3c + 5d - c + 2d$	
(b) Cimplify 9 a V 5 f	(2)
(b) Simplify $8e \times 5f$	
	(1)
(c) Solve $5r - 3 = 8$	
	r =  (2)
	(Total for Question 11 is 5 marks)
12 (a) Simplify $6e \times 2f$	
	(1)
(b) Simplify $5m + 7k - 2m + k$	
	(2)
(c) Solve $5y + 3 = 14$	(2)
(c) Bolve by 15 14	
	$y = \dots (2)$
	(Total for Question 12 is 5 marks)







7 (a) Solve $5x = 20$	
	$x = \dots $ (1)
(b) Simplify $3a \times 8b$	
(c) Simplify $8w - 4y + w - 3y$	(1)
(d) Factorise fully 16 + 12t	(2)
(a) Find the value of $25 - 4g$ when $g = -3$	(2) (Total for Question 17 is 6 marks)
	(2)
(b) Expand and simplify $x(2x + 1) + 3(x - 2) + 7$	
	(3) (Total for Question 18 is 5 marks)

19	(a) Solve	5x = 30	
			<i>x</i> =
			(1)
	(b) Solve	y - 7 = 12	
		•	
			$y = \dots (1)$
			(1)
	(c) Simplify	h+h+h+h+h	
			(1)
	(d) Simplify	5a + 7f - 2a + 4f	
	(a) Simping	5a × 1, 2a × 1,	
			(2)
			(2)
_			(2) (Total for Question 19 is 5 marks)
_			
_			
_			
_			
_			
_			
_			
_			

20	(a) Simplify $4m + 2m - m$		
			(1)
	(b) Simplify $5p \times 7$		(1)
	(b) Simping Sp X /		
			(1)
	(c) Solve $8g = 40$		
		g =	(1)
	(d) Solve $19 - k = 4$		(1)
		k =	
		,	(1)
		(Total for Question 20 is 4	marks)
21	(a) Simplify $10a \times b$	(Total for Question 20 is 4	marks)
21	(a) Simplify $10a \times b$	(Total for Question 20 is 4	
21		(Total for Question 20 is 4	(1)
21	(a) Simplify $10a \times b$ (b) Solve $n+3=7$	(Total for Question 20 is 4	
21			(1)
21		<i>n</i> =	(1)
21			(1)
21		<i>n</i> =	(1)
21		<i>n</i> =	(1)
21		<i>n</i> =	(1)
21		<i>n</i> =	(1)

22	(a) Simplify $p+p+p+p+p+p$		
	(b) Simplify $5y^2 + 6y^2 - 3y^2$		(1)
	(c) Simplify $e \times e \times e \times e \times e$		(1)
	(d) Simplify $5c \times 4d$		(1)
	(e) Solve $x - 7 = 19$		(1)
	$18^2 + 15^2 - 5^3 = 4n$ (f) Work out the value of <i>n</i> .	<i>x</i> =	(1)
	(g) Factorise 9t – 6	n =	(2)
		(Total for Question 22 is 8	(1) 8 marks)

23	(a) Simplify $w \times w \times w \times w \times w$	
	(b) Simplify $5a \times 3c$	(1)
	(c) Simplify $3e + 2f - e + 5f$	(1)
	(d) Solve $5x - 7 = x + 12$ Show clear algebraic working.	(2)
		$x = \dots (3)$
		(Total for Question 23 is 7 marks)