A025 Expanding and factorising 1 Q1. (a) Simplify 8e + 2f - 11e + 3f (b) Expand 2y(3y - 7) (c) (Total for question = 4 marks)

Q2.

Expand and simplify
(i) 5(2x + 1) - 3(3x - 1)

(ii) (y + 5)(y - 7)

.....

.....

(Total for question = 4 marks)

Q3.		
(a) Simplify $2e^2f$	$f \times 5e^3 f$	
(b) Factorise x^2	- 5 <i>x</i> - 6	(2)
		(2)
	(Total for ques	stion = 4 marks)
Q4.	(Total for ques	stion = 4 marks)
Q4. (a) Factorise g^2		stion = 4 marks)
		stion = 4 marks)
(a) Factorise g^2	² + 4 <i>g</i>	etion = 4 marks)
	² + 4 <i>g</i>	
(a) Factorise g^2	² + 4 <i>g</i>	
(a) Factorise g^2	² + 4 <i>g</i>	

(Total for question = 4 marks)

(4)
(1)
(1)
(2)
(2)

- (a) Simplify
 - (i) $a \times 5 \times b \times c$
 - (ii) $q^5 + q^5 + q^5$
 - (iii) 7m + 6n 2m 9n

- (b) Factorise $t^2 10t$

(Total for question = 6 marks)

Q7.	
(a) Simplify $2a - 5b + 3a - 4b + a$	
	(2)
(b) Factorise 7dg – 9de	
	(2)
(c) Expand and simplify $(x + 2)(x + 5)$	
	(2)

(Total for Question is 6 marks)

Q8.	
(a) Factorise n ² + 8 <i>n</i>	
	(2
(b) Expand and simplify 3(2x − 5) −4(x + 3)	
(c) Expand and simplify $(y + 7)(y + 2)$	(2
	(2
	(Total for question = 6 marks

Q9.	
(a) Factorise $3f + 9$	
	(1)
(b) Factorise $x^2 - 2x - 15$	
	(2)
	(Total for question = 3 marks)
Q10.	
(a) Simplify $4p^3q^5 \times 6p^2q$	
(b) Simplify $(5x^2y^4)^3$	(2)
	(2)
(c) Factorise 9 <i>a</i> ² – <i>b</i> ²	
	(2)

(Total for question = 6 marks)

Q11.

Factorise 10a + 25	
(b) Factorise $7w^2 - 4w$	(1
(c) Expand $p^2(p-5)$	(1
(d) Expand and simplify $(x-3)(x+7)$	(2
$G = f^3 - 7f$ (e) Work out the value of G when $f = 2$	(2

(Total for question = 8 marks)

(2)

Q12.	
(a) Expand and simplify $(5x + 2)(2x - 3)$	
	(2)
(b) Factorise $x^2 + 4x + 3$	
	(2)
Q13.	(Total for question = 4 marks)
Q 10.	
(a) Expand and simplify $3(y-2) + 5(2y+1)$	
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(a) Expand and simplify $3(y-2) + 5(2y+1)$	
	(2)
(a) Expand and simplify $3(y-2) + 5(2y+1)$ (b) Simplify $5u^2w^4 \times 7uw^3$	(2)
	(2)
	(2)
	(2)

(Total for question = 4 marks)

Q14.			
(a) Factorise $x^2 - 169$			
4 · - · · · · · · · · · · · · · · · · ·	(2		(1)
(b) Expand and simplify	(3x+2)(2x-1)		
			(2)
		(Total for qu	uestion = 3 marks)