1. (a) Factorise

$$8x - 20$$

(b) Factorise fully

$$10x^2 - 15xy$$

- 4(2x-5)
- 5x(2x-3y)

(2) (3 marks)

2. (a) Factorise

$$3x + 12$$

(b) Factorise fully

$$2x^2 - 4xy$$

- 3(x+4)
- 2x(x-2y)

(c) Expand and simplify 3(2a+5)+5(a-2)

11a +5

(2)

(5 marks)

3. (a) Expand

$$3(2y-5)$$

64-15

(b) Factorise completely $8x^2 + 4xy$

4x(2x+y)

(3 marks)

- Expand 4. (a)
- 4(3x + 5)
- 12x + 20
- (b) Expand and simplify 3(x-4)-2(x+5)

$$3x - 12 - 2x - 10$$

- x 22(3 marks)
- $x^{2} + 7x$ 5. Factorise (a)
- $\chi(\chi+1)$
- (b) Expand x(x+2)

 $x^2 + 2x$

Factorise completely $2y^2 - 4y$ (c)

- 24 (4-2)
 - (6 marks)

(2)

(2)

6. (a) Expand

3(4x + y)

(b) Expand

- 5p(p-3)
- 12x + 3y

Factorise completely $8y^2 - 24xy$ (c)

- $5p^2 15p$
 - (6 marks)

7. (a) Expand and simplify 3(x+4) + 2(5x-1)

(b) Factorise completely $6y^2 - 9xy$

64(4+2)

(4 marks)

8. (a) Factorise fully

$$6y^2 + 12y$$

(2)

(b) Factorise

$$5x - 10$$

$$5(x-2)$$

(c) Factorise fully

$$2p^2-4pq$$

$$2p(p-2q)$$

(5 marks)

9. (a) Expand and simplify 3(x+5) + 2(5x-6)

132+3

(b) Factorise

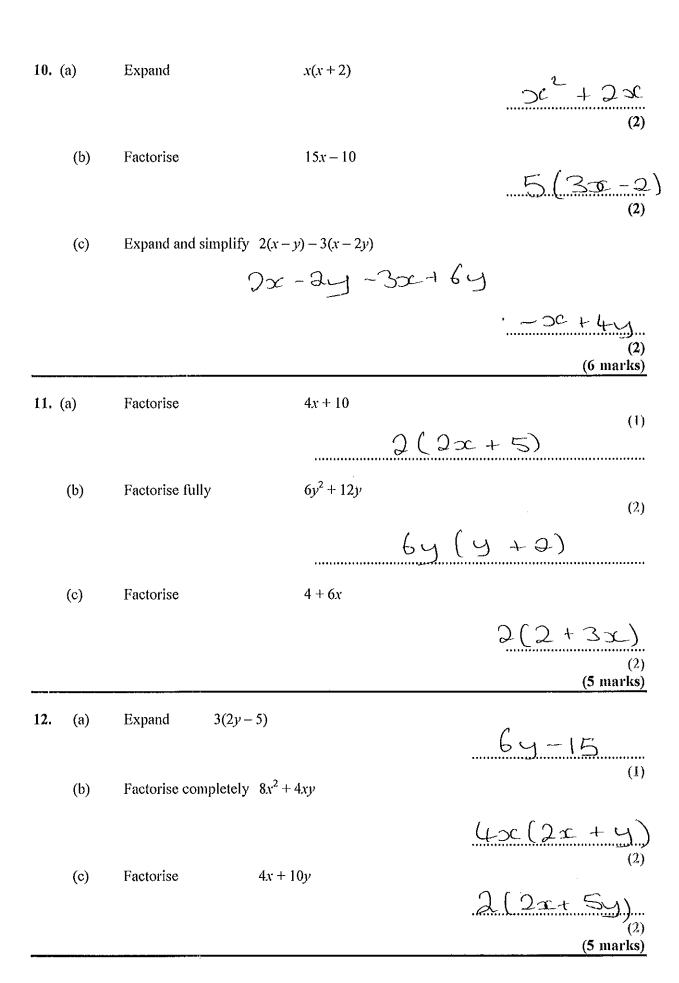
$$5x + 10$$

5(2+2)

(c) Factorise $x^2 - 7x$

 $\chi(\chi-7)$

(4 marks)



13.	(a)	Expand	3(x + 4)	3x+12				
	(b)	Expand	$x(x^2+2)$	()				
	(c)	Factorise	$x^2 - 6x$	$\chi^3 + 2 \circ c \tag{2}$				
				$\chi(x-6)$ (1) (4 marks)				
14.								
	(b)	Factorise	$x^2 + 7x$	p(p+1)				
				$\chi(\chi + 7)$				
	(c)	Expand and	simplify $4(x-3)-2(1-x)$ 4x-3-2(1-x)	6x -14				
	ī		· · · · · · · · · · · · · · · · · · ·	(4 marks)				
15.	(a)	Factorise	4x + 10y	2(25c+5y)				
	(b)	Factorise	$x^2 + 7x$	(1)				
				X(2c+7)				
	(c)	Expand	$x^2(x+5)$	$x^3 + 5x^2$ (2)				
		**************************************	·····	(4 marks)				

16	(a)	Emand	5(2 2)		
16.	(a)	Expand	5(2y-3)	104-15	(1)
	(b)	Expand the brackets	$p(q-p^2)$	Pg - p3	40
	(c)	Expand and simplify	5(3p+2)-2(5p-3) 15p+10-10p+6		(1)
			130710 101	5p+16	(2) (4 marks)
17.	(a)	Expand	3(2g-1)	6g - 3	
	(b)	Expand	2d(d+3)	2d + 6d	(1)
	(c)	Factorise	p^2+6p		(2)
			÷	p (p + 6)	(2) (5 marks)
18.	(a)	Multiply out $7(n-3)$		70-21	(1)
	(b)	Expand $5(2y-3)$		104,-15	. (1)
	(c)	Expand and simplify $2(3x+4) - 3(4x-5)$			(1)
		$2(3x+4) - 3(4x-5)$ $6 \times + 8 - 12$	x+15	23-6x	(2)

(2)

(4 marks)

 $y(y^3 + 2y)$ 19. (a) Expand y + 2y $6x^2 - 9xy$ Factorise completely (b) 3x(2x-3y)(c) Expand and simplify 5(3p+2)-2(5p-3)15p+10-10p+6 5p+16 20. Expand the brackets 4(2x-3)(i) 8x-12 $p(q-p^2)$ (ii) P2-P3 $t(3t^2+4)$ (ii) 323+41 3t - 1221. Factorise (a)

21. (a) Factorise
$$3t-12$$

$$3\left(t-4\right)$$
 (2)

(b) Factorise
$$y^2 + y$$
 $y - (1)$

(c) Expand and simplify
$$3(2x-1)-2(2x-3)$$

$$6x-3-4x+6$$

$$2x+3$$
(6 marks)

(2)

(2)

(2)

(2)

(2)

(6 marks)

(6 marks)