1.	(i)	Factorise	$x^2 - 4x - 45$

(ii) Solve the equation

$$x^2 - 4x - 45 = 0$$

2. (i) Factorise
$$x^2 - 7x + 12$$

.....

(ii) Solve the equation

$$x^2 - 7x + 12 = 0$$

(Total 3 marks)

3. (a) Factorise
$$x^2 - 3x - 18$$

$$x^2 - 3x - 18$$

(2)

(b) Solve
$$x^2 - 3x - 18 = 0$$

 $x = \dots$

(1) (Total 3 marks)

4. (a) Factorise
$$x^2 + 6x + 8$$

(2)

(b) Solve
$$x^2 + 6x + 8 = 0$$

or x =

(Total 3 marks)

(1)

5.	(a)	Factorise $x^2 - x - 56$	
			(2)
	(b)	Solve $x^2 - x - 56 = 0$	
			<i>x</i> =
			or $x =$ (1)
			(Total 3 marks)
6.	(i)	Factorise $x^2 + 9x + 20$	
	(ii)	Solve the equation	
		$x^2 + 9x + 20 = 0$	
			(Total 3 marks)

7.	(i)	Factorise	$x^2 - 12x + 35$	
				•••••
	(ii)	Solve the equa	ation	
			$x^2 - 12x + 35 = 0$	
				(Total 3 marks)
		2		(10tai 3 mai ks)
8.	(i)	Factorise x^2 –	-x - 72	
	 \	0.1.1		••••••
	(11)	Solve the equa		
		x^2-x-7	72 = 0	

(Total 3 marks)

9. (a) Factorise
$$x^2 - 15x + 56$$

.....(2)

(b) Solve
$$x^2 - 15x + 56 = 0$$

x =.....

or x = (1) (Total 3 marks)

10. (a) Factorise
$$x^2 + 9x + 18$$

.....(2)

(b) Solve
$$x^2 + 9x + 18 = 0$$

x =.....

or $x = \dots$

(Total 3 marks)

(1)

11.	(a)	Factorise $x^2 - 2x - 48$	
	(b)	Solve $x^2 - 2x - 48 = 0$	(2)
			<i>x</i> =
			or $x =$ (1) (Total 3 marks)
12.	(i)	Factorise $x^2 + 10x + 24$	
	(ii)	Solve the equation $x^2 + 10x + 24 = 0$	
		$x^2 + 10x + 24 = 0$	
			(Total 3 marks)

x+2 x+6

Diagram **NOT** accurately drawn

The diagram shows a trapezium.

The lengths of three of the sides of the trapezium are x - 5, x + 2 and x + 6. All measurements are given in centimetres.

The area of the trapezium is 36 cm^2 .

(a) Show that $x^2 - x - 56 = 0$

(4)

(b) (i) Solve the equation $x^2 - x - 56 = 0$

(ii) Hence find the length of the shortest side of the trapezium.

..... cm

(4)

(Total 8 marks)