Q1.	Solve	5x - 6 = 3x + 7						
		x =		(Total 3 marks)				
Q2.	The diagra	am shows a recta						
			Not drawn ac	ccurately				
			(4x - 5) cm	1				
		(5y – 7) cm		(y + 3) cm				
		,	15 cm	•				
	(a) Set up and solve an equation to work out the value of x.							

x =

(b)	Work out the area of the rectangle.
	Answer cm ² (5)
	(Total 8 marks

Q3. The diagram shows three straight lines.

3(4x – 20°)

Not drawn accurately

(a) Which of the following describes the pair of angles marked? Circle your answer.

2x + 100%

Alternate Corresponding Interior Vertically opposite

	(b)	Work out the value of x .	
		<i>x</i> = degrees	
			(4) (Fotal 5 marks
			·
Q4.			
	(a)	Solve $6x + 4 = 2(2x - 5)$	
		<i>x</i> =	(3)
	(b)	Multiply out $y(2 - y^3)$	
	` '		
		Answer	(0)
			(2) (Fotal 5 marks

Q5. Solve	6x - 11 = 4x + 7	
	<i>x</i> =	(Total 3 marks)
Q6.Solve	5x - 9 = 3x + 11	
	<i>x</i> =	 (Total 3 marks)
Q7. (a) F	factorise fully $4x^2 - 6xy$	
	Answer	(2)
(b)	Solve $\frac{2w-1}{4} = 2 - w$	

	<i>w</i> =		
		•	(3) (Total 5 marks)
Q8.Show that all sides of this	s quadrilateral could be equal.		
		Not drawn	
		accurately	
	7 <i>x</i> – 19	-	
6(x - 2)		4x + 2	
6(<i>x</i> – 2)			
]	
	3(x + 3)		
			(Total 5 marks)

(1)

Q9.	Rag 4 contains 7y counters					
	Bag A contains $7x$ counters.					
	Bag B contains $2x$ counters.					
	Five counters are taken from $\operatorname{Bag} A$ and put in $\operatorname{Bag} B$.					
	(a)	Write an expression, in terms of x , for the number of counters now in bag B .				
		Answer				
	(b) The ratio of counters in bag A to bag B is now 8 : 3					
		Use algebra to work out the total number of counters in the bags.				

(4) (Total 5 marks)

11 cm
(x + 4) cm
(3x – 7) cm

Not drawn accurately

Two of the rods are the same length.

Work out the **three** possible values for x.

••••••	 	

Answer 1 $x = \dots$

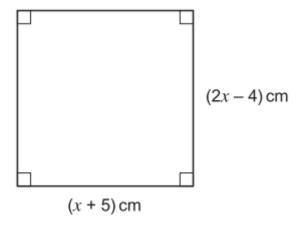
Answer 2 $x = \dots$

Answer 3 $x = \dots$

(Total 5 marks)

(Total 3 marks)

Not drawn accurately



Wor	k out the perimet	er of the square.			
		Answer	 	. cm	
				(To	tal 5 marks)
Q12.Solve	3(x+2) = 2	<i>x</i> – 1			
		<i>x</i> =			