ALGEBRA IN CONTEXT PROS

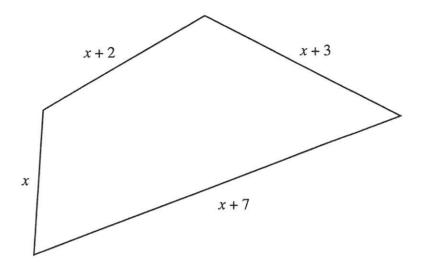
(a)	Adrian has x pence. Cheryl has 10 pence more than Adrian. Write down, in terms of x, the number of pence that Cheryl has.						
(b)	A shirt has 8 buttons. Write down, in terms of y, the number of buttons on y shirts.						
(c)	A ruler is r cm long. Write down, in terms of r , the length of a line which is 6 cm shorter than the length of th ruler.						
(a)	Stan's printer prints 8 copies per minute. Julia's printer prints 11 copies per minute.						
	Stan's printer prints for x minutes.						
	(i) Write down, in terms of x, the number of copies that Stan's printer prints in these x minutes.						
	[1]						
	 Julia's printer prints for 4 minutes less than Stan's printer. Write down, in terms of x, the number of minutes for which Julia's printer prints. 						
	[1]						
	(iii) Write down, in terms of x , the number of copies that Julia's printer prints.						
	[1]						
(a)	Peter buys x sweets and Mary buys 6 sweets. Write down, in terms of x, the total number of sweets they buy.						
***********	[1						
(b)	Rulers cost 25 pence each. Write down, in terms of y, the cost of y rulers.						
20 00	[1						
(c)	A car is b metres long and a second car is 2 metres shorter than it. Write down, in terms of b, the length of the second car.						
	[1						

(4)	(a)	A number is represented by the letter k . Write down, in terms of k ,				
		(i) the number that is 5 more than k ,				
		(ii) the number that is 4 less than k ,				
		(iii) the number that is 3 times k ,				
		(iv) the number that is 7 more than 10 times k .				
			[4]			
(1)	(a)	Jack has x pence. Jill has 8 pence less than Jack. Write down, in terms of x, the number of pence that Jill has.				
	**********		[1]			
	(b)	A box weighs 70 grams. Write down, in terms of b , the weight of b boxes.				
	•••••		[1]			
6		The length of a piece of wood is $2x + 1$ centimetres. A second piece of wood is $3x$ centimetres longer than the first piece of wood.				
		Write down in terms of x the length of the second piece of wood.				
		Length = centimetres	F47			
			[1]			



The diagram shows a quadrilateral.

The lengths of the sides are all given in centimetres.



(a) Write an expression for the perimeter of the quadrilateral in terms of x.

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	ı	L		•	٦		J

[2]

[1]

- (b) (i) The perimeter of the quadrilateral is 40 cm. Write down an equation in terms of x.
 - (ii) Solve the equation.

(c) Write down the lengths of the four sides of the quadrilateral.