Edexcel Maths C1

Topic Questions from Papers

Inequalities

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- Find the set of values of x for which
 - (a) 3(2x+1) > 5-2x,

(2)

(b) $2x^2 - 7x + 3 > 0$,

(4)

(c) **both** 3(2x + 1) > 5 - 2x **and** $2x^2 - 7x + 3 > 0$.

(2)

$x^2 - 7x - 18 > 0.$	
	(4)



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- **4.** Find the set of values of x for which
 - (a) 4x 3 > 7 x

(2)

(b) $2x^2 - 5x - 12 < 0$

(4)

(c) **both** 4x - 3 > 7 - x **and** $2x^2 - 5x - 12 < 0$

(1)



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- **3.** Find the set of values of x for which
 - (a) 3(x-2) < 8-2x

(2)

(b) (2x-7)(1+x) < 0

(3)

(c) both 3(x-2) < 8-2x and (2x-7)(1+x) < 0

(1)

Leave
blank

3.	Find	the	set	of	values	of x	for	which

(a)	4x –	5 \	15	
(a)	4x-	- 🤈 >	. 1.7	-x

(2)

(b)
$$x(x-4) > 12$$

(4)



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8.	A rectangular room has a width of x m.	
	The length of the room is 4 m longer than its width.	
	Given that the perimeter of the room is greater than 19.2 m,	
	(a) show that $x > 2.8$	(3)
	Given also that the area of the room is less than 21 m ² ,	
	(b) (i) write down an inequality, in terms of x , for the area of the room.	
	(ii) Solve this inequality.	(4)
	(c) Hence find the range of possible values for x.	(1)

estion 8 continued	

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5.	Find	the s	set o	t va	lues	ot x	tor	whic.	h

(a)	2(3x)	+4)	>	1-x
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(2)

(b)
$$3x^2 + 8x - 3 < 0$$

(4)