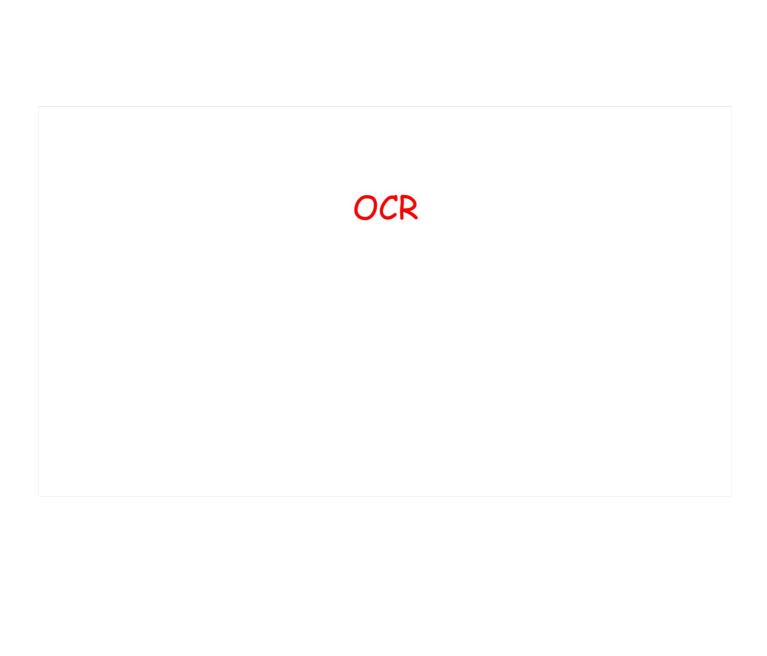
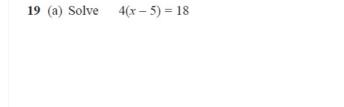
A18...Solving Inequalities Listing integers



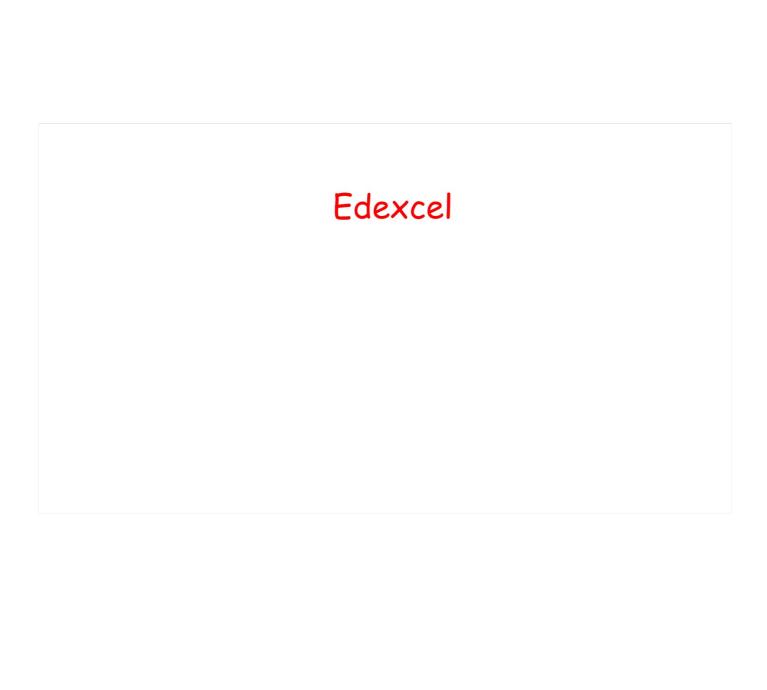


$$x =$$
 (2)

 $-3 < t \le 2$ t is an integer.

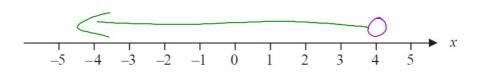
(b) Write down all the possible values of t.

(2)



19 (a) On the number line, show the inequality x < 4

A17



(2)

	Video Created by W Neill
$3 < y \leqslant 7$ where y is an integer.	
(b) Write down all the possible values of y.	
A18	
	(2)

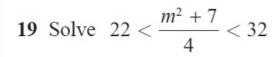
 $3 < y \leqslant 7$ where y is an integer. — whole number

(b) Write down all the possible values of y.

A18

3 < y < 7

4,5,6,7



A18 Show all your working.

(Total for Question 19 is 5 marks)

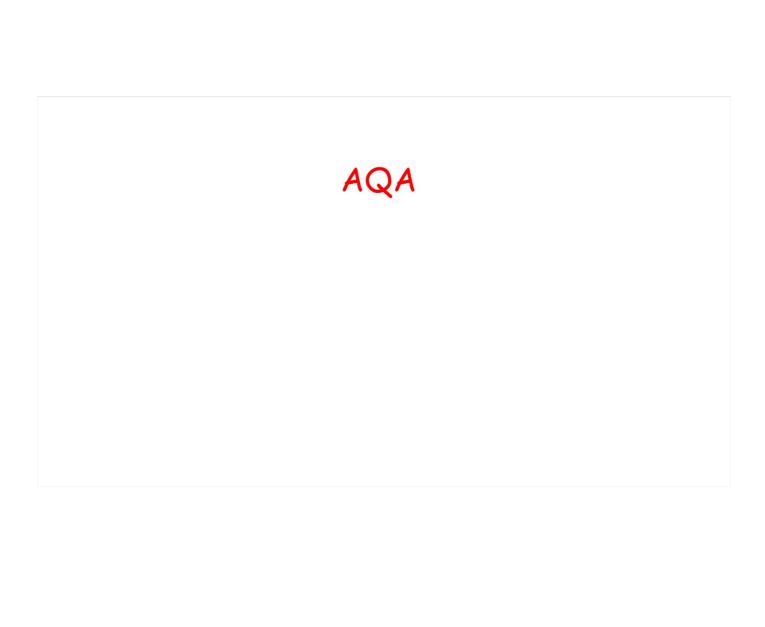
19 Solve
$$22 < \frac{m^2 + 7}{4} < 32$$

Al8

Show all your working.

 $M^2 + 7 < 32$
 $M^2 + 7 > 22$
 $M^2 + 7 > 88$
 $M^2 + 7 < 128$
 $M^2 > 81$
 $M^2 = |2|$
 $M = 11$
 $M = -9$

(Total for Question 19 is 5 marks)



				Video created by W Neill			
27	How are the whole number solutions to A and B different?						
A18	Α	Solve	$3 \le 3x < 18$				
	В	Solve	$3 < 3x \le 18$				
				[2 marks]			

	Have and t	ha whala mu	mbar aalutiana ta /	Namal Da	liffa wa m t ?	Video created by W Neill		
	How are the whole number solutions to A and B different?							
A18	Α	Solve	$3 \le 3x < 18$					
	В	Solve	$3 < 3x \le 18$	_				
)		[2 marks]		
	A	3 < 3	3x < 8		B	3 < 32 = 18		
	χ=	1,2	, 3, 4, 5		x= "	2,3,4,5,6		

18 x is greater than 5 and less than or equal to 9 Circle the inequality that shows this.

[1 mark]

A18

 $5 \le x < 9$ $5 > x \ge 9$ $5 \le x > 9$ $5 < x \le 9$

 $\it x$ is greater than 5 $\it and$ less than or equal to 9 18 Circle the inequality that shows this.

[1 mark]

A18

$$5 \leqslant x < 9$$

$$5 > x \geqslant 9$$

$$5 \leqslant x < 9$$
 $5 > x \geqslant 9$ $5 \leqslant x > 9$ \times



2 Circle the list of **all** the integers that satisfy $-2 < x \le 4$

[1 mark]

A18

2 Circle the list of **all** the integers that satisfy $-2 < x \le 4$

[1 mark]

A18