#### INEQUALITIES

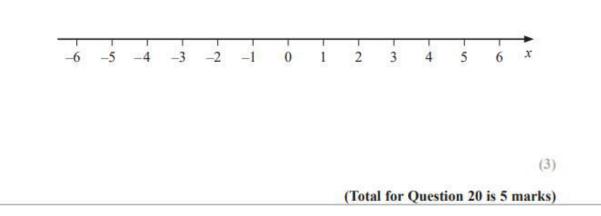
### Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

1.

**20** (a) Solve 14n > 11n + 6

(b) On the number line below, show the set of values of x for which  $-2 < x + 3 \le 4$ 

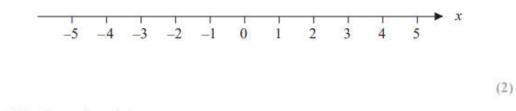
(2)



### Pearson Edexcel - Monday 12 November 2018 - Paper 3 (Calculator) Foundation Tier

2.

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



 $3 < y \leq 7$  where y is an integer.

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

(c) Solve  $3x + 5 \ge x + 17$ 

(3)

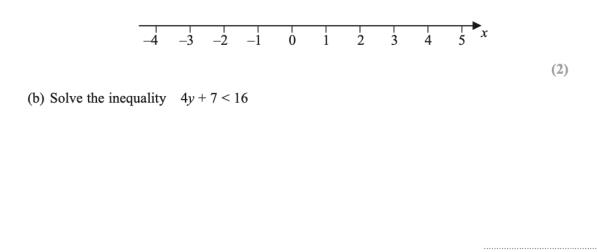
(Total for Question 19 is 7 marks)

(2)

### Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

3.

**20** (a) Show the inequality  $-2 \le x \le 3$  on the number line below.

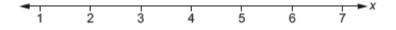


(2)

(Total for Question 20 is 4 marks)

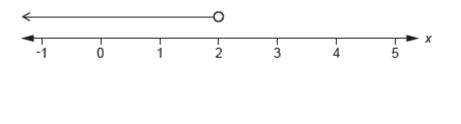
#### OCR November 09 November 2020- Morning (Calculator) Foundation Tier

- 4.
- 16 Solve 3x+4 < 19. Show your solution on the number line.



## OCR Tuesday 5 November 2019 – Morning (Calculator) Foundation Tier

- 5.
  - 6 Write down the inequality shown on this number line.

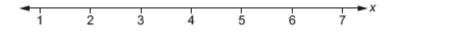


.....[2]

[4]

6.

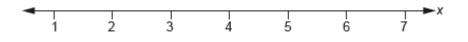
16 Solve 3x + 4 < 19. Show your solution on the number line.



# OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

7.

**19** Solve  $3x - 5 \ge 10$ . Show your solution on the number line.



[4]

### OCR Monday 12 November 2018 – Morning (Calculator) Foundation Tier

#### 8.

7 (a) Show the inequality x > 3 on this number line.



y Simpiny.

4a+3c+7a-5c

(b) .....[2]

(c) Solve.

$$\frac{2x}{3} = 4$$

(c) x = .....[2]

### OCR Thursday 7 June 2018 – Morning (Non-Calculator) Foundation Tier

9.

12 (a) Multiply out.

4c(d - 5)

(a) ......[2]

(b) Multiply out and simplify.

(3x + 2)(x - 4)

(c) Solve.

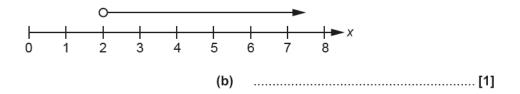
 $3x - 2 \leq 22$ 

#### OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

10.

- 4 (a) Use one of these symbols <, > or = to make each statement true.
  - (i)  $\frac{1}{4}$  ..... 0.25 [1]

- (b) Write down the inequality for x that is shown on this number line.



OCR Sample Question Paper 3 – Morning/Afternoon (Calculator) Foundation Tier

11. 18 (a) (i) Solve. 5x + 1 > x + 13

(a)(i) .....[3]

(ii) Write down the largest integer that satisfies 5x - 1 < 10.

(ii) ......[1]

(b) Solve.

 $3x^2 = 75$ 

(c) Solve.

4x + 3y = 52x + 3y = 1

 AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

12.

24 x is an integer.

 $-4 < x \le 2$ and  $2 \le x + 3 < 9$ 

Work out all the possible values of x.

[3 marks]

Answer

AQA Tue	sday 6 November 2018 – Morning (Non-Calculator) Foundation Tier	
13.		
10	x is a positive integer.	
	$35 \div x$ is a positive integer.	
	Work out the <b>four</b> possible values of <i>x</i> .	[2 marks]
	Answer	
<b>AQA Mo</b> 14.	nday 12 November 2018 – Morning (Calculator) Foundation Tier	
28	Solve $8 > 3 - \frac{1}{2}x$	
	2	[2 marks]
	Answer	

AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

15.

28	Solve	5(x + 3) < 60	[2 marks]
		Answer	

AQ	A Thur	sday 2 Nove	ember 2017 – Morning (Non-Calculator) Foundatio	on Tier
	16.			
31	(a)	Factorise	$x^2 - 100$	[1 mark]
			Answer	
31	(b)	Solve	7x + 6 > 1 + 2x	[2 marks]
			Answer	

#### AQA Wednesday 8 November 2017 - Morning (Calculator) Foundation Tier

17.

18x is greater than 5 and less than or equal to 9<br/>Circle the inequality that shows this.[1 mark] $5 \le x \le 9$  $5 \le x \ge 9$  $5 \le x \ge 9$ 

#### AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

18.

27 How are the whole number solutions to A and B different?

Α	Solve	3 <i>≤</i> 3 <i>x</i> < 18
В	Solve	$3 < 3x \leq 18$

[2 marks]

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

19.

26 Solve 5x - 2 > 3x + 11 [2 marks]