#### **SUBSTITUTION**

#### Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1

15 T = 3x + 4y

(a) Work out the value of T when x = 5 and y = -7

(2)

(b) Work out the value of y when T = 38 and x = 6

(2)

(Total for Question 15 is 4 marks)

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

2.

11 
$$P = 7r + 3q$$

Work out the value of P when r = 5 and q = -4

(Total for Question 11 is 2 marks)

Pearson Edexcel - Tuesda	y 6 November 2018	- Paper 1 (Non-Calculato	r) Foundation Tie
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3.

9 
$$g = 9$$
  
 $h = 4$ 

Work out the value of 2g + 3h

(Total for Question 9 is 2 marks)

#### Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Foundation Tier

4.

**16** 
$$P = 4x + 3y$$

$$x = 5$$
$$y = -2$$

(a) Work out the value of P.

(2)

(c) Solve $3(m-4) = 21$	
	<i>m</i> =
Edexcel – Specimen 2 - Paper 1 (Non-Calculo 10 (a) Solve $3x + 7 = 1$	(Total for Question 16 is 6 mark
	(Total for Question 16 is 6 mark
	(Total for Question 16 is 6 mark
	(Total for Question 16 is 6 mark
	(Total for Question 16 is 6 mark
<b>10</b> (a) Solve $3x + 7 = 1$	(Total for Question 16 is 6 mark lator) Foundation Tier $x = \dots$
	(Total for Question 16 is 6 mark lator) Foundation Tier $x = \dots$
10 (a) Solve $3x + 7 = 1$ (b) $f = 6$ g = 5	(Total for Question 16 is 6 mark lator) Foundation Tier $x = \dots$

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

27 At a depth of x metres, the temperature of the water in an ocean is  $T^{\circ}C$ . At depths below 900 metres, T is inversely proportional to x.

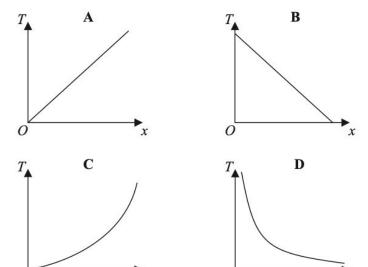
T is given by

$$T = \frac{4500}{x}$$

(a) Work out the difference in the temperature of the water at a depth of 1200 metres and the temperature of the water at a depth of 2500 metres.

(3)

Here are four graphs.



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One of the graphs could show that T is inversely proportional to x.

(b) Write down the letter of this graph.

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# Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

7.

10 Complete this table of values.

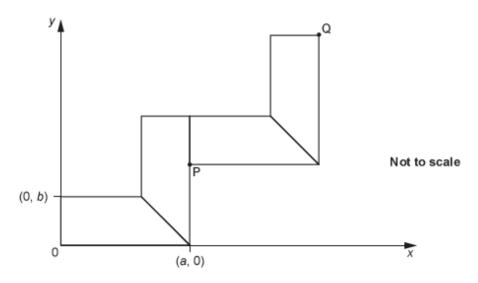
n	3n + 2
12	
	47

(Total for Question 10 is 3 marks)

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

8.

16 Four identical trapeziums are placed on a coordinate grid as shown.



(a) Write down algebraic expressions for the coordinates of point P.

ĺ	a	) (		 )	[2]	ı
١		, ,		 ,		ı

(b) The coordinates of point Q are (16, 13).

Work out the value of a and the value of b.

# OCR Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

9.		
6	You are given that $5y = 4x$ .	
	(a) Find the value of $y$ when $x = 10$ .	
		(a) y =[2]
	(b) Write y in terms of x.	
		(b) <i>y</i> =[1]

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

6	(a)	Sim	plify.	
		(i)	2p + 5p - 3p	
				[1]
		(ii)	6j + 3k - j - 5k	
				[2]
	(b)	Find	If the value of $10h + 6t$ when $h = 12$ and $t = 4$ .	
	(c)	Res	(b) arrange this formula to make d the subject.	[2]
	(0)	,,,,,	e = f - 7d	
			(c)	[2]

	11.
18	f = 5x + 2y x = 3  and  y = -2
	Find the value of f.
	(Total for Question 18 is 2 marks)

Pearson Edexcel –Sample Papers - Paper 2 (Calculator) Foundation Tier

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

	12.			
5	(a)	Find the value of $3a + 2b$ when $a = 16$ and $b$	= 7.	
			(a)	[2
	(b)	Use the formula		
		v = u + at		
		to find the final velocity, when		
		<ul> <li>the initial velocity is 2 m/s</li> <li>the acceleration is 1.5 m/s<sup>2</sup></li> <li>the time is 6 seconds.</li> </ul>		
			(b)	m/s [2
	(c)	Make $d$ the subject of this formula. $c = 7d$		
		c = ra		
			(c)	[1
			1-7	•

# OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

13	3.		
14	The	value of a car £V is given by	
		$V = 20000 \times 0.9^t$	
	whe	ere t is the age of the car in complete years.	
	(a)	Write down the value of $V$ when $t = 0$ .	
	(b)	What is the value of $V$ when $t=3$ ?	(a) £[1]
	(c)	After how many complete years will the car's value drop below £10	(b) £[2]
			(c)[2]

#### AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

14.

3 Circle the expression that has the **smallest** value when x = 4

[1 mark]

$$5-x \qquad \qquad \frac{1}{2}x \qquad \qquad x+1 \qquad \qquad x-4$$

$$x + 1$$

$$x-4$$

AQA Thursday 11 June 2019 – Morning (Calculator) Foundation Tier

22	Here is a formul	9
~~	HEIE IS A IUITIUI	a.

$$T = n^2 - \frac{12}{n}$$

22 (a)	Work out $T$ when $n = 5$	[1 mark]
	Answer	
22 (b)	Answer $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	[2 marks]

# AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

19	a = 7 and $b = 2$		
	Work out the value of	$\frac{a}{b} - a^b$	[3 marks
	Ans	wer	

# AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

	17.		
13		Here is a formula for the amount of water needed to cook rice.	
		w = 1.5r + 0.5	
		w is the number of cups of water needed	
		r is the number of cups of rice to be cooked	
13	(a)	How many cups of water are needed to cook 7 cups of rice?	[2 marks]
		Answer	_
13	(b)	How many cups of rice can be cooked with 20 cups of water?	[3 marks]
		Anguar	

#### AQA Thursday 25 May 2017 – Morning (Non-Calculator) Foundation Tier

18.

12 A football team has P points. P = 3W + DW is the number of wins D is the number of draws 12 (a) A team has 6 wins and 2 draws. How many points does the team have? [1 mark] Answer After 33 games a different team has 53 points. 12 (b) 11 games were draws. How many games has this team lost? [4 marks] Answer

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

19.		
19	The value of x can be 2 or 5	
	The value of y can be 3 or 12	
19 (a)	List the possible values of $xy$	[2 marks
	Answer	
19 (b)	Work out the <b>least</b> possible value of $\frac{x-y}{x}$	
	You <b>must</b> show your working.	[2 marks
	Answer	

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

20.

12	Here	are	three	expressions

<u>b</u>	a-b	al
a		

When a=2 and b=-6 which expression has the smallest value? You **must** show your working.

[2 marks]

Answer \_\_\_\_\_

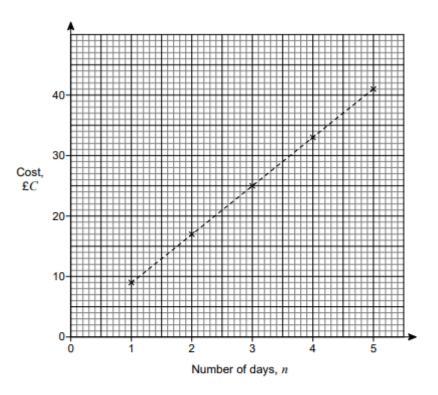
20 (a)	w and x are whole numbers.	
	$w \ge 40$	
	x < 30	
	Work out the <b>smallest</b> possible value of $w-x$	
		[2 marks]
	Answer	
	7.11.611.61	
20 (b)	wand a new whole numbers	
20 (b)	y and z are <b>whole</b> numbers.	
	y < 60	
	z ≤ 50	
	Work out the <b>largest</b> possible value of $y+z$	
	•	[2 marks]
	Answer	

23	Kelly is trying to work out the two values of $\boldsymbol{w}$ for which Her values are $$ 1 and $$ 1	$3w - w^3 = 2$	
	Are her values correct? You <b>must</b> show your working.		[2 marks]

23.		
15	A company has bikes for hire. The cost, $\pounds C$ , to hire a bike for $n$ days is given by the formula	
	$C = 12 + \frac{27}{4}(n-1)$	
15 (a)	Write down the cost to hire a bike for 1 day.	[1 mark]
	Answer £	
15 (b)		
	Special offer	
	Hire a bike for £9 per day	
	Is it cheaper to hire a bike for 7 days using the special offer?	
	You must show your working.	[2 marks]

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

15 (c) The graph shows the cost to hire a bike for one to five days at a different company.



The cost, £C, to hire a bike for n days using this company is given by the formula

$$C = a + b(n-1)$$

Work out the values of a and b.

[3 marks]

<b>AQA Sample</b>	Paper 3-	Morning	(Calculator)	<b>Foundation</b>	Tier
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24.

8 Work out the value of 5x + 9y when x = 7 and y = -2 [2 marks]

Answer