SOLVING ONE STEP EQUATIONS

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

1.

_						
	10	(a)	12	B1	cao	
		(b)	4	В1	cao	

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

2.

1	(i)	43.7	B1	cao	
	(ii)	<u>5</u> 7	B1	$\frac{5}{7}$ oe	Accept any other equivalent fraction to $\frac{5}{7}$

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

3.

	3	 42	B1	cao
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Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

4.

	7 (a)	5	B1 cao
	(b)	12	B1 cao
	(0)	12	
	(c)	d^5	B1

OCR Monday 11 November 2019 - Afternoon (Calculator) Foundation Tier

11	(a)	3x - 6 final answer	1		
	(b)	2a ² + 2ab final answer	2	B1 for 2a ² or 2ab in final answer	Do not accept 2 <i>aa</i> for 2 marks but condone for 1 mark

OCR Thursday 6 June 2019 - Morning (Non-Calculator) Foundation Tier

6.

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	6	(a)	(i)	32	1		
			(ii)	9	2	M1 for either step reversed soi	eg +3, ÷ 5, 45
		(b)		y = 5x – 3 final answer	2	M1 for $5x - 3$ seen or $y = 5x + 3$ in final answer or $y = kx - 3$ ($k \ne 0$) in final answer or $y = 5x - c$ where $c > 0$ If 0 scored SC1 for $x = \frac{y+3}{5}$ final answer	Accept $5x - 3 = y$ Allow $x \times 5 - 3$ for 1 or 2 marks Accept $5x + 3 = y$ or $6x - 3 = y$ or $6x - 3 = y$

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

7.

8		7		2	M1 for 3 × 4 – 5	May be in steps Allow 12 – 5 for M1
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8.

x ← ÷ 4← − 5 ← 35	12		7.5 or $7\frac{1}{2}$ or $\frac{15}{2}$ final answer	2	M1 for first correct step 4x = 35 - 5 or better or $x + \frac{5}{4} = \frac{35}{4}$ or better	Do not accept embedded answers Accept a fully correct flowchart or working for M1 eg $x \rightarrow x4 \rightarrow +5 \rightarrow 35$ $x \leftarrow \div 4 \leftarrow -5 \leftarrow 35$ or $(35-5) \div 4$ may be in stages
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OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

6	(a)	10 final answer	1	
	(b)	4 final answer	1	

OCR Monday 24 May 2018 – Morning (Calculator) Foundation Tier

10.

7	(a)	(i)	14	1		
		(ii)	18	1		
		(iii)	6.5 final answer	2	M1 for $8x = 46 + 6$ or better or $x = \frac{b}{a}$ from their $ax = b$ a $\neq 1$	Accept $6\frac{1}{2}$ or $\frac{13}{2}$ must be an equation Accept a fully correct flow chart for M1
	(b)		-6 and -5 final answer	3	B2 for $(x + 6)(x + 5)$ Or M1 for $(x \pm a)(x \pm b)$ where $(a + b) = 11$ or $(ab) = 30$ or pairs of factors giving two correct terms may be implied in a table And B1 for correct solutions FT their quadratic factors	

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

11.

4	а	i	4x - 3y final answer	2	B1 for 4x or –3y in final answer	4x+ -3y scores B1 only
		ii	w ⁶ final answer	1		
		iii	15c ³ d final answer	1		Accept $15dc^3$ Do not accept eg $15 \times c^3 \times d$
	b	i	13	1		
		ii	3	1		

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

12.

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2	x = 2	B1	

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

2	x = 13	B1	

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

14.

	Alternative method 1			
	3x = 19 + 8 or $3x = 27$	M1	accept in 'flow chart'	
	or		eg $(x \rightarrow) \times 3 \rightarrow -8 \rightarrow 19$	
	$(19+8) \div 3$ or $\frac{27}{3}$		and ←÷3 ←+8 ←19	enough for M1
	9	A1		
20	Alternative method 2			
	$x - \frac{8}{3} = \frac{19}{3}$	M1		
	9	A1		
	Additional Guidance			
	3 × 9 – 8 (= 19)			M1A0

AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

15.

	96		B1	
5(a)	Additional Guidance			
	T			
	72		B1	
5 (b)	5(b) Additional Guidance			uidance

AQA Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

	$x = \frac{2}{3}$	B1		
2	Additional Guidance			

AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

17.

	17	B1	
5a	Additional Guidance		
	9	B1	
5b	Additional Guidance		
	-2	B1	
5c	Add	ditional Gu	uidance

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

12a	10	B1	
12b	35	B1	
12c	-5	B1	

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

19.

17 $x-3=\frac{x}{2}$ B1

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

20.

	x = 3	B1		
4 Additional Guidance		Guidance		

AQA Thursday 8 June 2017 – Morning (Calculator) Foundation Tier

	4x = 14 + 3 or $4x = 17or(14 + 3) \div 4 or 17 \div 4orx - \frac{3}{4} = \frac{14}{4}$	M1		
	4.25 or $\frac{17}{4}$ or $4\frac{1}{4}$	A1		
	Additional Guidance			
11	Embedded answer of 4.25 with 4.25 not selected on answer line eg $4 \times 4.25 - 3 = 14$ with no answer given or answer of 14 or 17			M1A0
	14 + 3 and answer 4.25			M1A1
	14 + 3 only			M0A0
	Trial and improvement with answer 4.25			M1A1
	Trial and improvement with no answer or answer other than 4.25			M0A0
	4.25 or $\frac{17}{4}$ or $4\frac{1}{4}$ seen and then answer 4 given			M1A1
	Answer of ×4.25			M1A0
	17 ÷ 4 (and no further)			M1A0

AQA Sample Paper 3– Morning (Calculator) Foundation Tier

	4x + 20 = 15 or $x + 5 = 15 \div 4$	M1	oe
14	4x = 15 - their 20 or $x = 15 \div 4 - 5$	M1	oe
	-1.25	A1ft	oe ft M1M0 or M0M1 with only one error