WRITING AN EXPRESSION

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

1.

7	$7y$	B1	for $7y$ oe	Accept $7 \times y$ oe Accept a formula, eg. $P = 7y$ but **not** $y = 7y$

Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

2.

18		D: $15 - x$ P: $\frac{20+x}{2}$	M1 A1 A1	For writing a correct expression for D or P before sweets are eaten $20 - x$ or $20 + x$ One correct expression Both correct expressions

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

3.

14	(a)		9	M1 A1	for -12 and $\div 7.80$ cao
	(b)		$T = 7.8y + 12$	C1 C1	for $7.8y + 12$ or $T =$ linear expression in y $T = 7.8y + 12$ oe

OCR – Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

4.

13	(a)	Equation	1	
	(b)	Expression	1	
	(c)	Identity	1	

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

5.

16	a	$(a, a - b)$	2	B1 for one correct coordinate	Condone eg $1a$
	b	$a = 8$	2	M1 for $2a = 16$ soi	
		$b = 3$	2	M1 for $2a - b = 13$ soi	Eg their values of a and b correct for $2a - b = 13$
				If 0 scored SC1 for $a = (8,0)$ or $b = (0,3)$	

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

6.

13	(a)	(i)	$6a + 10b$ or $2(3a + 5b)$ final answer	2	**M1** for $6(a + b) + 2 \times 2b$ oe If 0 scored **SC1** for $3a + 5b$ as final answer	**M1** for EG $a + b + a + b + a + b + a + b + a + b + a + b + 2b + 2b$ or $2 \times (3a + 3b + 2b)$ etc
		(ii)	$6b(a + b)$ final answer	2	**B1** for $6(ab + b^2)$ or $b(6a + 6b)$ or $3(2ab + 2b^2)$ or $3b(2a + 2b)$ or $2(3ab + 3b^2)$ or $2b(3a + 3b)$	
	(b)		4 by 1 rectangle with $4a + 4b$ and $2b$ or 2 by 2 rectangle with $2a + 2b$ and $4b$ or 1 by 4 rectangle with $a + b$ and $8b$ stated or marked on rectangle	5	**B4** for $4a + 4b$ and $2b$ or $2a + 2b$ and $4b$ or $a + b$ and $8b$ or **B3** for rectangle drawn as (4 by 1) or (2 by 2) or (1 by 4) or **B2** for one of $2a + 2b$ or $4a + 4b$ or $4b$ or $8b$ or **B1** for any rectangle of 3 or more tiles drawn with $a+b$ or $2b$ marked on individual tiles	Accept unsimplified throughout Once correct expression(s) seen, ignore incorrect simplification to answer line In answer space or intended as final length and width Must clearly be answer May be in attempt to factorise EG $4b(2a + b)$ Accept unsimplified EG $a+b + a+b$ Only tiles that form the perimeter needed

OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

7.

14	a	i	Valid explanation	1	Such as 'distance is time times speed'	Need to see 'multiply' oe See Appendix
		ii	$5 - x$	2	**M1** for time to travel from A to C = 5[hours] soi	Must be seen in this part
		iii	$20(5 - x) = 100 - 20x$	1		
	b		78	4	**M1** for $26x + 100 - 20x = 118$ **M1** for *their* $6x$ = *their* 18 **M1** for $x = \dfrac{their\ 18}{their\ 6}$ soi	Simplifying their equation to $ax = b$ Simplifying their $ax = b$ to $x = \dfrac{b}{a}$

8.

23	a	i	Valid explanation	1	Such as 'because $2n$ is always even so $2n + 1$ will be odd'	Must mention even and odd See Appendix
		ii	$2n + 3$ **oe**	1		
	b		$2n + 1 + 2n + 3$	**M1**		
			$=4n + 4\ [= 4(n + 1)]$ which is a multiple of 4	**A1**	If 0 scored **SC1** for $2n + 1 + their\ (2n + 3)$	*their* $(2n + 3)$ must be an algebraic expression in n

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

9.

10	(a)		$p + c$	B1	
	(b)		$\dfrac{14}{3}$	M1	adds 5 to both sides of equation
				A1	oe

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10.

Q	Answer	Mark	Comments
	$10 \times x$ or $10x$	M1	oe
18	$T = 15 + 10x$	A1	oe eg $T = 10x + 15$ allow $T = 15 + 10 \times x$
	Additional Guidance		
	Condone $x10$ for $10x$ for M mark		
	Ignore units		
	$15 + 10x = T$		M1A1
	Condone a correct rearrangement after $T = 15 + 10x$ seen eg $T - 15 = 10x$ or $x = \dfrac{T - 15}{10}$		M1A1
	Do not ignore further incorrect working eg $T = 15 + 10x$ and $T = 25x$		M1A0
	$T = 5 \times 3 + 10 \times x$		M1A0
	$15 + 10x$		M1A0

11.

7(a)	$d + 3$ or $3 + d$	B1	must be seen in (a)
	Additional Guidance		
	Condone $e = d + 3$ or $e = 3 + d$		B1
	$d = e - 3$		B0

	$d - 5$	B1	must be seen in (b)

7(b)

Additional Guidance	
Condone $f = d - 5$	B1
$d = f + 5$	B0

7(c)

their $(d + 3)$ – their $(d - 5)$ or $3 - -5$ or chooses values for d, e and f with e 3 more than d and f 5 less than d and subtracts f from e or chooses values for e and f with e 8 more than f and subtracts f from e	M1	oe eg $d + 3 - d + 5$ or $3 + d + 5 - d$ ft their expressions in (a) and (b) if both in terms of d and at least one has a numerical term may be implied by eg $f = e - 8$
8	A1ft	correct or ft their expressions in (a) and (b) if both in terms of d and at least one has a numerical term

Additional Guidance	
8	M1A1
$(d = 10,)$ $e = 13$ and $f = 5$ and $13 - 5$	M1
Only condone missing brackets if recovered	
$d + 3 - d - 5$ and no recovery	M0
$d + 3 - d - 5$ and answer 8	M1A1
$d + 3$ in (a), $5 - d$ in (b) and $2d - 2$ in (c)	(B1B0)M1A1ft
$3d$ in (a), $d - 5$ in (b) and $2d + 5$ in (c)	(B0B1)M1A1ft
$3d$ in (a), $-5d$ in (b) and $8d$ in (c)	(B0B0)M0A0

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12.

18	2049	B1	
	Additional Guidance		

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13.

4	$A = 2B$	B1	

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14.

2	$4n$	B1	