

BODMAS

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

1.

3		80	B1	cao	
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Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

2.

5	(a)	22	B1	cao	Allow alternative correct statements, eg $[7 \times (2 + 3)] = 35$
	(b)	8	B1	cao	
	(c)	$7 \times (2 + 3) = 35$	B1	for correct placement of brackets	

Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Foundation Tier

3.

15	(a)	Incorrect order of operation	C1	for identifying an incorrect order of operation, eg should be $12 - 8$ or "should multiply first"	Showing that $12 - 2 \times 4$ is 4 (and not 40) is insufficient for this mark; the explanation should focus on what Jenny has done wrong.
	(b)	Statement	C1	for stating that the range is the difference between the greatest and least values, or stating that he didn't put numbers in order	Stating the correct calculation for the range $(8 - 1)$ or stating the (correct) range as 7 is sufficient for this mark.

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

4.

2			72	B1	cao
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OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

5.

1	(a)	(i)	[an] odd [number]	1	
		(ii)	[a] prime [number]	1	
	(b)	(i)	24 and 28 only	1	
		(ii)	$12n$	1	Where n is integer. 12, 24, 36, 48, ...
	(c)		$(4 - 1) \times 2$	1	
	(d)		$\frac{7}{100}$	1	Accept equivalent proper fractions

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

6.

3			$5 \times (3 - 1) = 10$	1		If multiple attempts <ul style="list-style-type: none"> mark a clear final pair (eg others lighter) if no clear selection then regard as choice for 0 marks
			$(3 + 6 - 2) \div 2 = 3.5$	1		

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

7.

3	a	i	1000	2	M1 for $10 \times 10 \times 10$	
		ii	18	2	M1 for $9(8 - 6)$ or 9×2 or SC1 for answer of 90 or -18	M1 for eg $72 - 54$
	b		$1 + 2 \times (3 + 5) = 17$	1	Or $1 + (2 \times (3 + 5)) = 17$	Condone $1 + 2(3 + 5) = 17$ if rewritten

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

8.

7	a	i	3	1		
		ii	22	1		
	b	i	32	1		
		ii	20	1		Accept ± 20
	c		10	3	M2 for two values from 20, 4 and 8 used correctly in calculation or M1 for 20 or 4 or 8	eg $\frac{23 \times 4}{8}$ or $(24 \div 8) \times 4$

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

9.

8	a	i	11	1		Accept -11, ± 11
		ii	$\frac{1}{16}$	1		Accept 0.0625
	b		9	2	M1 for $(9 - 6)^2$ or better Or SC1 for answer of 144	
	c		$5^3 = 125$	1		

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

10.

1	(a)	7	1 1 AO1.3a	
	(b)	4	1 1 AO1.3a	

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

11.

16		Correct answer (264) with complete correct working, e.g. $(3 + 1) \times 6 \times 11$	4 1 AO1.3a 3 AO3.1a	<p>M3 for correct working but no final answer stated $(3 + 1) \times 6 \times 11$ or the working is poorly communicated but is clear, e.g. $(3 + 1) \times 6 \times 11 = 264$ or number greater than 200 with complete correct working Or M2 for 264 with no (or incomplete) working or for acceptable number over 200 with poorly communicated working Or M1 for number greater than 200 with no, or incomplete, working or for $(3 \times 6) \times 11$ [$\times 1$] condoning error in calculation or for two trials leading to numbers below 200 (condone poor communication) or acceptable calculation with their answer minimum 200 but error in evaluation For 1 or 2 marks 'acceptable' implies number, minimum 200, that can be made</p>	<p>Working correctly communicated in stages is acceptable for 4 marks, e.g. $3 + 1 = 4$, $4 \times 6 = 24$, $24 \times 11 = 264$</p> <p>Full written explanation is also acceptable</p>
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AQA Tuesday 19 May 2020 – Morning (Non-Calculator) Foundation Tier

12.

Q	Answer	Mark	Comments	
7	344	B1		
	39	B1		
	305	B1ft	ft their 344 – their 39 if either B1B0 or B0B1 awarded	
	Additional Guidance			
	If their division results in a decimal answer, allow correct rounding to 0dp or better for the B1ft eg $234 \div 6 = 38.333$, $344 - 38.3 = 305.7$ (may have answer 306) eg $344, 234 \div 6 = 20.3$, answer 324			B1B0B1ft B1B0B1ft
Negative, fractional and decimal answers are acceptable on ft				

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

13.

5(a)	382.4 or 362.42 or 15.82	B1	implied by correct answer of 380.32 384.48 or 344.52 implies B1 (both additions or both subtractions)
	380.32	B1ft	ft correct evaluation of their $382.4 - 2.08$ or their $362.42 + 17.9$ or their $15.82 + 364.5$
	Additional Guidance		
	Do not apply a misread or allow follow through if this results in a subtraction of either two 2 decimal place values or two 1 decimal place values		
5(b)	18.72	B1	oe eg 18.720

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

14.

13	18	B1	
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AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

15.

12(a)	(16.4 – 3.92 =) 12.48 or (16.4 + 7.8 =) 24.2 or (7.8 – 3.92 =) 3.88	B1	
	20.28	B1ft	ft their 12.48 + 7.8 or their 24.2 – 3.92 or their 3.88 + 16.4 SC1 4.68
	Additional Guidance		
	Answer of 20.28		B1B1
	4.68 comes from 16.4 – (3.92 + 7.8)		SC1
	– 4.68		SC0
	Follow through must have at least 1 decimal place eg 16.4 – 3.92 = 12 then 12 + 7.8 = 19.8 eg 16.4 – 3.92 = 12.58 then 12.58 + 7.8 = 20.38		B0B0ft B0B1ft

12(b)	406.23	B2	Ignore further work e.g rounding B1 $400 \leq \text{answer} < 410$ B1 digits 40 623 (not 406.23)
	Additional Guidance		
	0406.23		B2
	Ignore trailing zeros eg 406.230000		B2
	406.23 in division calculation and 406 on answer line		B2
	406.23 in division calculation and 46.23 on answer line cannot be considered a transcription error and cannot be ignored as further work		B1

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

16.

20	$(\sqrt{121}) = 11$ or -11 or $121 = 11^2$ or $121 = 11 \times 11$ seen	B1	oe
	$13 - 10$ or 3 or $(13 - 10)^2$ or 3^2 or 3×3 or 9	M1	
	2 or -20	A1ft	ft their 11
	Additional Guidance		
	Accept 2 and -20		B1M1A1ft
	$11 - 16^2$ or $11 - 256$ or -245		B1M0A0
	$11 \times 9 = 99$		B1M1A0
	$\sqrt{121} = 60.5$, $60.5 - 3^2 = 51.5$		B0M1A1ft
$60.5 - 3^2 = 51.5$		B0M1A0ft	

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

17.

13	$2 + 0 + 1 - 7 = -4$ or $2 - 0 + 1 - 7 = -4$	B1	
	$2 \times 0 \times 1 \times 7 = 0$ or $2 \times 0 \div 1 \times 7 = 0$ or $2 \times 0 \times 1 \div 7 = 0$ or $2 \times 0 \div 1 \div 7 = 0$ or $2 \times 0 \times (1 + 7) = 0$ or $2 \times 0 \div (1 + 7) = 0$	B1	Allow any brackets in pairs for first four Allow – instead of + for last two
	$(2 + 0) \times (1 + 7) = 2^4$ or $(2 - 0) \times (1 + 7) = 2^4$ or $2 \times (0 + 1 + 7)$	B1	
	Additional Guidance		
	In all cases, allow extra pairs of brackets which do not alter the result of the calculation eg in 3rd calculation $((2 + 0) \times (1 + 7)) = 2^4$		B1
	Brackets can be used in the place of a multiplication sign eg in 2nd calculation $2 \times 0(1 + 7) = 0$		B1
	Each gap must have a bracket or an operator in		
Allow additional + or - signs in any gap, if correct eg in 1st calculation $2 + 0 + 1 + - 7 = -4$		B1	