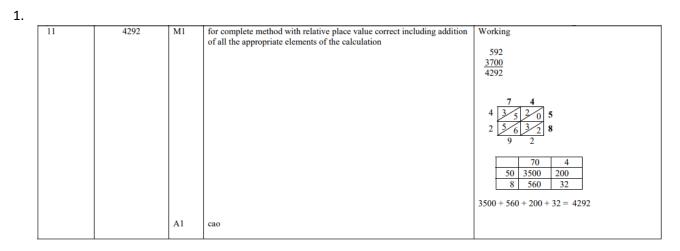
#### **MULTIPLICATION AND DIVISION**

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



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

2.

3	а	28	B1
	b	1020	B1
	с	-8	B1

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

3.

9	15561	M1 M1 A1	for complete method with relative place value correct (addition not necessary), allow 1 arithmetic error (dep) for addition of all appropriate elements cao
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## OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

4.

1	(a)	103	1		
1	(b)	357	2	M1 for any correct complete method shown	For M1 condone 1 arithmetic error

4	(a)	15 or 15000 <b>g</b> clearly identified	2	M1 for figs 18 ÷ 6 [×5] oe	May be implied by 3 [×5]
4	(b)	3.51 or 351p clearly identified	1		
4	(c)	[0].03 oe	1		accept trailing zeros eg 0.030

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

6.									
5	5			29	2	<b>M1</b> for 16 × 2 soi 32	May be 16 × 2 – 3		

## OCR Tuesday 21 May 2019 – Morning (Calculator) Foundation Tier

7.

	9	6	Allow any letter providing use is consistent
	16		this method assumes Ayesha's age = a
	32		B4 for $a + a + 7 + 2(a + 7) = 57$ or better
			OR
			B1 for [ <i>b</i> =] <i>a</i> + 7 oe e.g. <i>a</i> = <i>b</i> – 7
			B1 for $c = 2b$ oe e.g. $\frac{c}{2} = b$ or $[c=] 2(a+7)$
			B1 for their'a' + their' $\dot{b'}$ + their'c' = 57 e.g. $a + b + c = 57$ must be algebraic
			AND
			M1FT for correctly solving <i>their</i> linear equation in one variable e.g. $4a = 36$ and $a = 9$
			AND
			<b>M1</b> for substituting <i>their a</i> into $b=a+7$ and $c=2b$ e.g. $a=8$ , $b=15$ and $c=30$ implied by <i>their</i> answer which must be integers
			See appendix for other methods
			Mark working first,
			$\frac{\text{if }0\text{ scored}}{\text{place or SC1}}$ for 2 answers correct in the correct place or SC1 for 1 answer correct in the correct place
			or if 1 scored then award the better of 1 or SC2 for 2 answers correct in the correct place
			to a maximum of 5 marks
Thursday 6 June 2	2019 – Morning (Non-Calculator) Founda	ation T	ier

OCR T цy ıg (i

8.

1	(a)	(i)	9.43	1	-
		(ii)	3	1	
		(iii)	54	1	
	(b)	(i)	>	1	
		(ii)	<	1	
		(iii)	=	1	

### OCR Thursday 8 November 2018 – Morning (Non-Calculator) Foundation Tier

12	(a)	20	2	M1 for 80 ÷ 4 oe	NOT 8 ÷ 0.4
	(b)	$\frac{20 \times 40}{2} = 400$	3	M2 for $\frac{20 \times 40}{2}$ or M1 for 20 or 40 or 2	For 3 marks all 3 values must be rounded to 1sf

1	n	
т	υ	•

17	(a)	12	3	M2 for $\frac{57.8-54.2}{0.3}$ oe or M1 for 57.8 - 54.2 or 3.6 seen or for repeated subtraction of 0.3 from 57.8 or for repeated addition of 0.3 to 54.2	Minimum of 2 repeats Minimum of 2 repeats
	(b)	Answer would be bigger oe	1		e.g. It would take more days It will take longer

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

11	L.				
	2		30	1	

12.

12	(a)	[0].72	1	
	(b)	28	1	

### Pearson Edexcel – Sample Papers - Paper 1 (Non-Calculator) Foundation Tier

13.

21	32.968	M1	for correct method (condone one error)
		A1	for digits 32968
		A1	ft (dep M1) for correct placement of decimal pt

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

### AQA Tuesday 19 May 2020 – Morning (Non-Calculator) Foundation Tier

15.

Q	Answer	Mark	Comments
11(a)	10	B1	

Q	Answer	Mark	Comments			
	0.73	B2	B1 0.7() or digits 73 see	n		
	Additional Guidance					
11(b)	Condone .73			B2		
	Condone .7()			B1		
	0.7.3			B1		

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

16.

4	$12 \times \frac{1}{2}$	B1	

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

17.

1 20	B1
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#### AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

	Altern	native m	ethod	1		
	8 3 × 2 6 4 9 8 1 6 6 0 or				M1	at least one row correct, with the 0 correct for multiplication by the multiple of 10 you may see the rows of working switched
	1	2 8 7 2 0 8	3 8			
	their 4	198 + the	eir 1660			
5	or their 78 + their 2080				M1dep	
	2158				A1	
	Alternative method 2					
						at least three of the calculated values
		20	6			correct
	80	1600	480		M1	may be seen as 4 calculations, not in a grid
	3	60	18			
	their 1600 + their 480 + their 60 + their 18			+ their 60 +	M1dep	
	2158				A1	

	Alternative method 3			
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	М1	at least three of the calc correct	ulated values
	Total calculated for each diagonal with at least one correct carrying figure	M1dep	clear attempt to add eac	h diagonal
	2158	A1		
	Ado	litional G	uidance	
	20 × 80 + 6 × 3 (= 1618)			MOAO
5 cont	Alternative method 1: if the place holds this to be evidenced by their 8 as the u in place of the 0			
	Alternative method 2: if numbers are b at least 8 of the calculated values corre eg 40 40 3 and 10 10 6 (ie a maximum			
	Alternative method 3: diagonals must (unless recovered)	slope the	correct way for M1	
	Diagonal lines not present is M0 unles correct totals around the grid	s this is re	ecovered by seeing	
	Example of alternate method 3 with car $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 3	npleted once	M1M1depA

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

	2950.2745(00)	B1					
	Additional Guidance						
14(a)	2'950.2745 or 2,950.2745						
	2.950.2745						
	Allow correct rounding or truncation once full value seen						

	10 or 10 <sup>2</sup> or 100 or 30	M1			
	10 × 10 × 30 or 10 <sup>2</sup> × 30 or 100 × 30	M1dep			
	10 × 10 × 30 = 3000 and Sensible or 10 <sup>2</sup> × 30 = 3000 and Sensible or 100 × 30 = 3000 and Sensible	A1ft	ft their answer to part (a) for the dec		
14(b)	Ad				
	3000 (and Sensible) with no working	M0M0A0			
	Their decision must be based on part in part (b)				
	10 <sup>2</sup> × 30 = 3000 and 10 <sup>2</sup> × 29 = 2900	M1M1A1			
	10 <sup>2</sup> × 30 and 10 <sup>2</sup> × 29 and Sensible	M1M1A0			
	10 <sup>2</sup> × 29 = 2900 and Sensible	M1M0A0			
	ft should be Sensible if their part (a) is eg (a) 295.02745 (b) 10 × 10 × 30 =	(B0)M1M1A1ft			

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

	Alternative method 1		
5	$ \begin{array}{r} 7 & 3 \\ \times & 5 & 8 \\ \hline 5 & 8 & 4 \\ 3 & 6 & 5 & 0 \\ \end{array} $ or $ \begin{array}{r} 5 & 8 \\ \times & 7 & 3 \\ \hline 1 & 7 & 4 \\ 4 & 0 & 6 & 0 \\ \end{array} $	M1	At least one row correct, with the 0 correct for multiplication by the multiple of 10 You may see the rows of working switched
	their 174 + their 4060 or their 584 + their 3650	M1dep	
	4234	A1	

	Alter	Alternative method 2					
5 cont	70	50 3500 150	8 560 24		M1	At least three correct values	
	their 3 their 2		neir 560	+ their 150 +	M1dep		
	4234				A1		

	Alternative method 3					
5 cont	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	M1	At least three of the 2-digit	numbers correct		
	Total calculated for each diagonal with at least one correct carrying figure	M1dep	Clear attempt to add each diagonal			
	4234	A1				
	Additional Guidance					
	50 × 70 + 8 × 3 (= 3524)			MOMOAO		
	Alternative method 1 – if the place holde this to be evidenced by their 4 as the un					
	For alternative method 3, diagonals mus					
	Diagonal lines not present is M0 unless totals around the grid	covered by seeing correct				
	Example of alternative method 3 with car 3 $5$ $8$ $3$ $5$ $6$ $11$ $5$ $2$ $4$ $3$ $4$	7 3	mpleted once	M1M1depA0		

	Alternative method 1				
9	2.14	B2	oe B1 answer of 2.1() except 2.14 B1 0.214 or 21.4 or 214 or 2140		
	Alternative method 2				
	Divides by 2, 2 and 3 in any order or divides by 3 and 4 in either order or divides by 2 and 6 in either order	M1	oe Attempts at all divisions must be made using a valid method		
	2.14	A1	ое		
	Additional Guidance				
	25.68 ÷ 2 = 12.84 25.68 ÷ 3 = 8.56 25.68 ÷ 4 = 6.42 25.68 ÷ 6 = 4.28				
	Use of remainders is B0 eg 25.68 ÷ 12 = 2 remainder 1.68			B0B0	
	Do not accept rounding up to 26 or 30 or truncation to 25 eg 26 + 12 = 2.1666			B0B0	
	$2\frac{7}{50}$ (possibly from multiplying numerator and denominator by 1000 and cancelling the subsequent fraction)			B2	