WRITING, SIMPLIFYING AND ORDERING FRACTIONS

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Foundation Tier

1.

7	$\frac{3}{4}$	M1 A1	for method to find fraction shaded, eg 12 out of 16 squares shaded or unsimplified answer eg $\frac{12}{16}$ **or** for $1-\frac{1}{4}$ oe or for an answer of $\frac{1}{4}$ cao	May be expressed in a wide variety of ways.

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

2.

4	$\frac{3}{9}$	B1	for $\frac{3}{9}$ accept $\frac{1}{3}$	

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

3.

8		$\frac{5}{12}, \frac{1}{2}, \frac{17}{24}, \frac{3}{4}$	M1 A1	for a method to convert each to a form that can be easily used for comparing, eg $\frac{5}{12}$ $= \frac{10}{24}$ or for any 3 in correct order or all 4 in reverse order for correct order

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

4.

2		$\frac{37}{1000}$	B1

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

5.

9	**(a)**		(Line 2) [0].25 seen (Line 3) [$\frac{1}{4}$] ÷ 2 or × [0].5 oe (Line 4) [0].25 + [0].125 = [0].375	**1** **1** **1**		Ignore anything on line 1. Ignore extras in all lines if not wrong or contradictory No FT from **wrong** values above
	(b)		5	**2**	**M1** for 1 ÷ [0].05 [× 200] oe or **B1** for 250 or [0].25 or × 20 or figs 4 or 5 in answer	Condone 250 on answer line

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

6.

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

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

7.

3	$\frac{9}{4}$	B1	

8.

4	$\frac{x}{y}$	B1	

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

9.

9	**Alternative method 1**		
	$(1\frac{1}{4} =) \frac{5}{4}$	M1	oe improper fraction
	$\frac{4}{8}$ and $\frac{10}{8}$ or $\frac{2}{4}$ and $\frac{5}{4}$ or $\frac{3.5}{4}$	M1dep	oe common denominator with at least one correct numerator may be seen as start and end of a list
	$\frac{7}{8}$	A1	oe fraction
	Alternative method 2		
	$(1\frac{1}{4} - \frac{1}{2} =) \frac{3}{4}$	M1	oe
	$\frac{1}{2}$ + their $(\frac{3}{4} \div 2)$ or $1\frac{1}{4}$ – their $(\frac{3}{4} \div 2)$	M1dep	oe
	$\frac{7}{8}$	A1	oe fraction
	Alternative method 3		
	$(1\frac{1}{4} + \frac{1}{2} =) 1\frac{3}{4}$ or $\frac{7}{4}$	M1	oe
	their $1\frac{3}{4} \div 2$ or their $\frac{7}{4} \div 2$	M1dep	oe
	$\frac{7}{8}$	A1	oe fraction

9 cont	**Alternative method 4**		
	$(1.25 - 0.5 =) 0.75$ or $(1.25 + 0.5 =) 1.75$	M1	accept equivalent in percentages but must see % sign
	$(0.5 + 0.75 \div 2 =) 0.875$ or $(1.25 - 0.75 \div 2 =) 0.875$ or $(\frac{1.25 + 0.5}{2} =) 0.875$ or 87.5%	M1dep	0.875 must be correct accept equivalent in percentages but must see % sign
	$\frac{7}{8}$	A1	oe fraction
	Alternative method 5		
	Positions of $\frac{1}{2}$ and $1\frac{1}{4}$ correctly marked on line or correct midpoint marked on line	M1	if more points are marked, labels of $\frac{1}{2}$ and $1\frac{1}{4}$ must be given or indicated mark intention in terms of exact position accept decimals or equivalent fractions
	Correct midpoint marked on line and $\frac{3}{4}$ marked as $\frac{6}{8}$ and 1 marked as $\frac{8}{8}$	M1dep	oe fractions with common denominator > 4
	$\frac{7}{8}$	A1	oe fraction
	Additional Guidance		
	In alternative method 5: $\frac{1}{4}$ marked at $1\frac{1}{4}$ is sufficient for $1\frac{1}{4}$		
	In all schemes, award of M1dep means that M2 is awarded		
	Use the scheme that gives the greatest number of marks – ignore errors in the scheme(s) you do not use		

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

10.

4	$\frac{3}{25}$	B1	
	Additional Guidance		

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

11.

	$\frac{1.86}{1.6(0)}$	M1	oe $\frac{0.93}{0.8(0)}$ or $1\frac{0.26}{1.6}$
	$\frac{186}{160}$ or $1\frac{26}{160}$	A1	oe with no decimal values
	$\frac{93}{80}$ or $1\frac{13}{80}$	B1ft	ft correct simplification of their fraction using the digits 186 and 16(0) ignore incorrect conversion from $\frac{93}{80}$ to a mixed number
	Additional Guidance		
	Cannot score B1ft from an incorrect mixed number		
	$\frac{160}{186} = \frac{80}{93}$		M0A0B1ft
	$\frac{80}{93}$ implies B1ft		M0A0B1ft
25	$\frac{93}{80} = 1\frac{3}{80}$ (incorrect conversion to mixed number)		M1A1B1
	$\frac{186}{160} = \frac{31}{30}$ (incorrect simplification of fraction)		M1A1B0
	$\frac{93}{80} = \frac{31}{30}$ (incorrect simplification of fraction)		M1A1B0
	$\frac{93}{80} = \frac{0.93}{0.8}$ (incorrect simplification of fraction)		M1A1B0
	$\frac{186}{16} = \frac{93}{8}$		M0A0B1ft
	$\frac{1.86}{1.6} = \frac{9.3}{8}$		M1A0B0
	$\frac{1.86}{1.6} = \frac{186}{16} = \frac{93}{8}$		M1A0B1ft
	$\frac{1.86}{1.6} = \frac{86}{60} = \frac{43}{30}$ (simplification does not come from 186 and 16(0))		M1A0B0

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

12.

1	0.6	B1	
	Additional Guidance		

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

13.

3	0.215	B1	

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

14.

2	0.75	B1	
	Additional Guidance		

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

15.

3	1.5	B1	

AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

16.

3	$\frac{1}{3}$	B1	

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

17.

3	$\frac{15}{35}$	B1	