FRACTIONS OF AN AMOUNT

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

1.

19	$\frac{3}{10}$	P1	for a process to find three amounts in the correct proportions, eg R = 1, L = 3 × 1 = 3, A = 2 × 3 = 6, **or** R : L : A = $\frac{1}{6}$: 0.5 : 1 oe **or** $L=3R$, $L=\frac{A}{2}$ or $L=3R$, $2L=A$	Relationship could be given in algebraic form or in ratio form, using fractional comparison or using their own figures
		A1	for $\frac{3}{10}$ or equivalent fraction	Award P1 for correct answer not given as a fraction

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

2.

2	8	B1	cao	

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

3.

14	(a)	14	B1	for 14	
	(b)	Explanation	C1	for explanation **Acceptable examples** she divided by 2 but should have multiplied by 2 there are 96 halves in 48 48 × 2 = 96 **Not acceptable examples** 24 × 2 = 48	

Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

4.

6	16	M1	for a complete method to find 20% of 80 eg 80 × 0.2 oe	
		A1	cao SC B1 for an answer of 64 or 96	

5.

10	$\frac{3}{5}$	M1	for a start in the method eg 35 + 50 + 75 (= 160) **or** 400 − 35 − 50 − 75 (= 240) or $\frac{160}{400}$ oe	
		M1	for eg $\frac{400-"160"}{400}$ or $\frac{2}{5}$ or $1-\frac{160}{400}$ **or** for an unsimplified answer eg $\frac{"240"}{400}$ oe or as 60% oe	
		A1	cao	

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

6.

4	90	B1	cao	

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

7.

14	Isabel (supported)	P1	for process to work with $\frac{3}{4}$ eg $1 - \frac{3}{4} (=\frac{1}{4})$ oe, eg 25% or $\frac{25}{100}$ or $\frac{3}{4} = 75\%$ or $\frac{75}{100}$ or value of salary (say 1000) × 3 ÷ 4 (= 750)	
		P1	for process to work with ratio 3 : 7 eg $\frac{3}{3+7}$ oe or $\frac{7}{3+7}$ oe or value of salary (say 1000) ÷ (3+7) (= 100)	
		A1	for (28(%)), 25(%) and 30(%) or 72(%), 75(%), 70(%) or 0.28, 0.25, 0.3 or for using value of salary (say 1000) giving 280, 250, 300 or 720, 750, 700	
		C1	(dep P2) for Isabel or ft their comparative values	"Isabel" alone without supported evidence, gets 0 marks.

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

8.

5	720 000 ÷ 3	240 000	P1 for division by 3 A1 cao

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

9.

18		125	P1 for process to find 7/20 of 500 (=175) or 7/20 + 4/10 (=3/4) or 40% of 500 P1 for complete process to find the number of children. A1 cao

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

10.

15	(a)		168	B1
	(b)		14.85	M1 for 12.25 or 2.6 A1

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

11.

| 14 | | | 326.37 | 6 | **B4** for 296.7[0]
M1 for 296.7[0] × 1.1 oe

OR

M1 for 8.6[0] × 30 oe soi 258
and
M2 for 8.6 × 1.5 × 3 oe
or **M1** for 8.6 × 1.5 oe
　　or 8.6 × 3 oe
　　or 1.5 × 3 oe
and
M1 for *their* basic pay + *their* overtime
and
M1 for *their* final value × 1.1 oe | Alternative method

M1 for 33 × 8.6 soi by 283.8[0]
and
M2 for 8.6 × 0.5 × 3 oe
or **M1** for 8.6 × 0.5 oe
　　or 8.6 × 3 oe
　　or 0.5 × 3 oe
and
M1 for *their* basic pay + *their* overtime
and
M1 for *their* final value × 1.1 oe

Mark 1 method only |

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

12.

| 19 | | | 36 | 5 | **M4** for $40 \times \dfrac{3}{5} \times \dfrac{3}{2}$ oe

OR

M3 for "*women*" $\times \dfrac{2}{3} = 40 \times \dfrac{3}{5}$

OR

M2 $\dfrac{their\,24}{"women"} = \dfrac{2}{3}$

OR

M1 for $40 \times \dfrac{3}{5}$ oe
A1 for 24 | eg 0.6 x 40 ="*men passed*" ="*women*"
and "*women*" + $\dfrac{"women"}{2}$

eg accept any symbol for "*women*"
or condone omission of "*women*" if
further working does not imply finding
$\dfrac{2}{3}$ of 24

24 implies M1A1 |

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

13.

10	a	Gaming	1		
	b	A correct calculation or $\frac{150}{360}$ oe or $\frac{360}{150}$ oe	M1	$150 \div 360$ or $360 \div 150$ or $360 \div 3$ or $\frac{1}{3}$ of 360 or 150×3	For M1 oe is equivalent fraction eg $\frac{5}{12}$
		Justify rejecting Jack's assertion	A1	Must be comparison between • two fractions with common denominator or values or • two angles or • two values	Match answer to calculation or statement $\frac{150}{360}$ oe and $\frac{1}{3}$ oe with common denominator or 0.4[...] and 0.3[...] or 2.4 and 3 or *their* 450 and 360 See appendix
	c	1 [h] 15[min]	4	B3 for 1.25 [hours] or $1\frac{1}{4}$ [hours] or 75 [minutes] OR B1 for [Reading =] 90 M2 for (5 or 300) $\times \frac{their\ 90}{360}$ oe or (5 or 300) $\div \frac{360}{their\ 90}$ or B1 for $\frac{their\ 90}{360}$ soi $\frac{1}{4}$ or $\frac{360}{their\ 90}$ soi 4 ALTERNATIVE METHODS M1 for [150 + 30 =] 180 B1 for [reading =] 90 B1 for [reading =] 90 M1 for (5 or 300) ÷ 2 M1 for 360 ÷ 5 soi 72 M1 for 300 ÷ 360 or 360 ÷ 300 M1 for *their* (5 or 300) ÷ 2 ÷ 2 M1 for 90 ÷ their (360 ÷ 5) M1 for *their* (300 ÷ 360) × 90 or 90 ÷ *their* (360 ÷ 300)	Working may be in hours or minutes May be seen on diagram. Allow symbol oe M2 for (5 or 300) ÷ 4

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

14.

2	(a)	6	2	M1 for 12 ÷ 2 oe	
	(b)	$1\frac{3}{5}$	2	M1 for $\frac{8}{5}$ or $\frac{8 \times 1}{5}$	
	(c)	$\frac{2}{6}$ oe nfww	4	M3 for $1 - \frac{1}{6} - their\ (\frac{3}{6})$ oe or M2 for $their\ (\frac{5}{6}) \times \frac{3}{5}$ soi or $\frac{3}{6}$ seen or M1 for $1 - \frac{1}{6}$ or $\frac{5}{6}$ seen If 0 scored SC2 $1 - \frac{23}{30} = \frac{7}{30}$ or SC1 for $\frac{1}{6} + \frac{3}{5} = \frac{23}{30}$	Mark to candidates advantage Alternative method using diagram SC1 drawing pizza and shading $\frac{1}{6}$ Or SC2 for drawing 3 more of the five Slices (i.e. 4 out of 6 parts shaded)

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

15.

11	a	10	3	**M2** for $\frac{10}{18}$ [green] or 8 : 10 **soi** or 8 ÷ 4 x 5 **oe** Or **M1** for $\frac{8}{18}$ [red] or 4 : 5 **soi** or 8 ÷ 4 **oe** Or **B1** for $\frac{5}{9}$ **seen**	Eg $\frac{5}{9}$ = 2 x 5 [green grapes] Eg $\frac{1}{9}$ = 2 [green grapes]
	b	red 15 green 20	2	**M1** for fraction equivalent to $\frac{4}{9}$ or $\frac{3}{7}$ seen or **B1** 3k red grapes **and** 4k green grapes, k a positive integer > 1 seen in working or as final answer If 0 scored, **SC1** for red 16 green 20 or red 20 green 15	

Pearson Edexcel – Sample Papers - Paper 3 (Calculator) Foundation Tier

16.

3		1230	P1	for start to process eg. 6760 – 3879 – 1241 (=1640)
			P1	for use of fraction eg. "1640"÷4 or $1 - \frac{1}{4} \left(= \frac{3}{4} \right)$
			A1	