

TIME

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

1.

6	Yes with supporting calculations	M1	for ONE correct time conversion seen or used eg 105 (mins) is 1 (hr) 45 (mins) or $16\ 45 - 14\ 30 = 2\ \text{hr}\ 15\ \text{mins}$ or $14\ 30 + 1\ (\text{hr}) + 45(\text{mins})$	May be implied by a correct calculation 1 hr = 60 mins is not enough for this mark Intention to do the correct calculation or calculations is enough for this mark Accept any sensible time notation throughout (pm is not required)
		M1	for a full method to make a comparison eg for adding 20 and 105 to 14 30 (=16 35) or for subtracting 20 and 105 from 16 45 (=14 40) or for finding the time differences eg $16\ 45 - 14\ 30 (= 2\ \text{hr}\ 15\ \text{mins})$ and $105 + 20 (=125\ \text{mins})$ or adding 105 to 14:30 (= 16 15) and $1645 - "16\ 15" (=30)$	
		C1	correct conclusion from the comparison of accurate figure(s) eg Yes and 16 35 or 4.35(pm) 14 40 or 2.40(pm) or for 2 hours 5 minutes and 2 hours 15 minutes oe or for 10 minutes spare or 30 (minutes to get to the bus stop)	

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

2.

1	3	B1	cao	
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Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

3.

12	(a)	7	B1	cao	
	(b)		1 hr 38 mins	M1	
			A1	1 hr 38 (mins) or 98 minutes or 1.63 hrs	

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

4.

9	(a)	40 Yes (supported)	B1	cao	
	(b)		P1	for process shown to add a time to departure time eg $8.45 + 0.17$ or $8.45 + 0.15$ or $8.45 + 0.15 + 0.17$ OR for process to work out time at work after arrival at Manchester bus stop eg “9.35” + 15 OR finds accumulated additional time eg $17 + 15 (= 32)$ OR start to work backwards eg $10.00 - 0.15$	There must be some attempt to add but not necessarily complete or correct (eg 8.62). “9.35” must be a given time ie from 0905, 0935, 0955, 1010, 1025, or 1048. Process must be shown.
			P1	for process to use a bus time from Whitefield to Manchester with other times eg 0904 to 0935 with use of 17 or 15	Do not award in cases of ambiguity.
			C1	for conclusion of “Yes” supported by correct figures eg states 9.50 or comparable figures eg 9.35 and 25 (spare)	There needs to be a conclusion eg Yes or equivalent words supported by correct figures; if C mark fully evidenced award 3 marks.
			P1	Alternative scheme for process shown to find a duration of time using given figures eg 8.45 to 10.00, 8.34 to 9.05, 10.14 to 10.48	There must be some attempt to find a duration of time but not necessarily complete or correct. Process must be shown.
			P1	for process to find the total travelling time eg $17 + 31 + 15$ or $17 + 2 + 31 + 15$	31 can come from any bus apart from the last bus which is 34
			C1	for conclusion of “Yes” supported by correct figures eg comparable figures eg $65 < 75$ or $75 - 65 (= 10)$	There needs to be a conclusion eg Yes or equivalent words supported by correct figures; if C mark fully evidenced award 3 marks.

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

5.

4	(a)	$5.80 \times 3 + 7.80 = 25.20$	90p or £0.90	M1	for a correct first step from which a complete method could be developed, eg. $5.8(0) \times 3 (= 17.4(0))$ or $24.3(0) - 7.8(0) (= 16.5(0))$	
				M1	for complete method, eg. $7.8(0) + 5.8(0) \times 3 - 24.3(0) (= 0.9(0))$	
				A1	for answer in correct notation with correct units, eg. 90p or £0.90 (accept £0.90p and £0.9)	
	[SC: B1 for an answer of £2.90]					
	(b)			8.27pm	M1	for using 60 mins = 1 hour in the conversion of 102 minutes, eg. 1 h 42 mins or 1.42 or 1.7 or (60 + 42) mins or $102 - 60$ or $102 \div 60$ or for an answer of 8.27am or 08.27
					A1	for 8.27(pm) oe

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

6.

6	(a)		1 hr 4 mins	B1	cao
	(b)		No + explanation	B1	for no + explanation, eg the 0717 from Swindon takes less than one hour

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

7.

2		195	B1	cao
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OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

8.

6		750 [am] oe	4	B2 for 2 [hours] or M1 for $100 \div 50$ M1 for 10 10 [am] – their 2h – 20 mins	B2 may be implied by 120 mins
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9.

19		6 with correct working	5	B2 for 40 (LCM) identified or M1 for multiples of 8 and 20 up to at least 40 AND B2 for indicates 40, 80, 120, 160, 200, 240 or B1 for [time =] 269 oe or 270 oe M1 for their time \div 40 oe If 0 scored, SC1 for answer 6	"Correct working" requires evidence of at least B2 AND B1 or alternate convincing approach Eg attempts to count in 40 May be seen as clock times eg 0808, 0816, 0824,... 8.20, 8.40, 9.00,... Condone 1 error in either list FT other values Accept also if starting from 0801 Implies previous B2 Accept as times [0800], 8.40, 9.20, 10.00, 10.40, 11.20, 12.00 Condone [0801], 8.41, 9.21, 10.01, 10.41, 11.21, 12.01 eg Accept 4 hours 30 mins For M1 accept 4 correct multiples of 40 listed Condone 1 error FT other values Accept as times as above
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OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

10.

10		44	3	M2 for $66 \div (15 \div 5) [\times 2]$ oe or M1 for $15 \div 5$ or $5 \div 15$ or 5×66 oe	Ignore units throughout May be implied by 22
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OCR Tuesday 21 May 2019 – Morning (Calculator) Foundation Tier

11.

23	(a)	11.37 [am]	<p>4</p> <p>B3 for 11.37 pm OR B2 for listing the next 3 correct times of both buses. i.e. 8.55, 9.13, 9.31 and 8.57, 9.17, 9.37 OR B1 for listing the next 3 correct times of one bus i.e. 8.55, 9.13, 9.31 or 8.57, 9.17, 9.37</p> <p>Alternative method</p> <p>B3 for 3 [h] (must be sure 3 is not minutes) OR B2 for [LCM=] 180 or answer 14 37 or 2 37 pm OR M1 for [18=] 2×3^2 or [20=] $2^2 \times 5$ allow in a tree diagram etc or [LCM=] $180k$ ($k \neq 1$) OR B1 for listing the next 3 multiples of 18 and 20 i.e. 36, 54, 72 and 40, 60, 80</p> <p>See appendix for other methods</p>
	(b)	accept any correct assumption e.g. buses keep to the timetable or there are no delays or there are no changes to the timetable or they do not cancel any buses	<p>1</p> <p>See the appendix for other comments, if there is more than one comment mark the best one providing there are no incorrect comments</p>

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

12.

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 <ul style="list-style-type: none"> 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 <i>their</i> 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 $(5 \text{ or } 300) \times \frac{\text{their } 90}{360}$ oe or $(5 \text{ or } 300) \div \frac{360}{\text{their } 90}$ or B1 for $\frac{\text{their } 90}{360}$ soi $\frac{1}{4}$ or $\frac{360}{\text{their } 90}$ soi 4 ALTERNATIVE METHODS M1 for $[150 + 30 =] 180$ B1 for [reading =] 90 B1 for [reading =] 90 M1 for $(5 \text{ or } 300) \div 2$ M1 for $360 \div 5$ soi 72 M1 for $300 \div 360$ or $360 \div 300$ M1 for <i>their</i> $(5 \text{ or } 300) \div 2 + 2$ M1 for $90 \div \text{their } (360 \div 5)$ M1 for <i>their</i> $(300 \div 360) \times 90$ or $90 \div \text{their } (360 \div 300)$	Working may be in hours or minutes May be seen on diagram. Allow symbol oe M2 for $(5 \text{ or } 300) \div 4$

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

13.

18		10:50 [am]	4	SC3 for 10:50 pm OR B2 for LCM as 140 or 2 hours 20 [min] and M1 for [0] 8:30 plus <i>their</i> LCM OR M1 for $20 = 2 \times 2 \times 5$ and $35 = 5 \times 7$ and M1 for [0]8:30 plus <i>their</i> LCM OR B1 for listing [0]8:50, [0]9:10, [0]9:30 and B1 for listing [0]9:05, [0]9:40, 10:15	<i>Their</i> LCM must be correctly converted to hours and minutes No incorrect times in between [0]8:30 and [0]9:30 or [0]8:30 and 10:15
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OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

14.

23	(a)	4 points accurately plotted	2	B1 for 2 or 3 points accurately plotted	Condone missing or incorrect lines
	(b)	<p>Here are 4 different categories ,</p> <ul style="list-style-type: none"> • Compares the number of people in the whole of 2015 to the whole of 2016 (e.g. there were more people shopping in 2016) • Compares same seasons in 2015 with seasons in 2016 (e.g. there were more in Jul–Sept 2016 than in 2015) • Compares seasons within the same year (e.g. in 2016 there were more customers in the summer months) • Compares increases / decreases in the number of customers, referring to gradients (e.g. the biggest change was between Jul–Sept and Oct–Dec) <p>Do not allow comparisons that only refer to the shape of the graph (e.g, it goes up and down again or it peaks in Jul–Sept)</p> <p>1 mark for each acceptable comment - for 2 marks they must come from different categories</p>	2	B1 for 1 correct comment	<p>If they make 3 comments mark the best 2.</p> <p>It is possible to cover 2 categories in one comment for 2 marks</p>

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

15.

4		(£)255	6 2 AO1.3a 4 AO3.1d	<p>M1 for 6.5 [hours]</p> <p>M1 for 19.5 [hours] or <i>their</i> '6.5' × 3</p> <p>M1 for <i>their</i> '19.5' × 10</p> <p>M1 for [£]15</p> <p>M1 for <i>their</i> '15' × 4</p>	
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AQA Tuesday 19 May 2020 – Morning (Non-Calculator) Foundation Tier

16.

Q	Answer	Mark	Comments
6(a)	Dan and 20	B2	B1 150 or 2 min 10 or $2\frac{10}{60}$ or $2\frac{1}{6}$ or 20 in second gap
	Additional Guidance		
	If answer lines blank, up to 2 marks may be awarded from the working lines		
	Accept twenty for 20 Accept 2:10		
	Do not accept 130 for Dan		
	Condone 20 and Dan		B2
	Condone incorrect time notation if recovered eg $2.30 - 2.10 = 20$, answer Dan and 20s		B2
	Samir and 20		B1
	Dan alone does not score a mark eg Dan and 30 on answer line, with 150 in working eg Dan and 30 on answer line, no working eg Dan and 2 min 30s is more		B1 B0 B0
	$2:50 - 1:30 = 20$, answer of Dan and 20		B0
	$130 = 2.1(0)$ Unless recovered..... $130\text{ s} = 2.10\text{ min}$, answer of Dan and 20		B0 B2
	Accept any two conversions that enable comparisons eg $130 = 60 + 60 + 10$ and $2.5 = 60 + 60 + 30$		B1
	2 min 10 with incorrect units eg 2h 10 in working, answer Dan and 20 (recovered)		B1 B2

Q	Answer	Mark	Comments
6(b)	Wednesday and 3(.00)pm or Wednesday and 15.00(h)	B2	B1 Wednesday or 3(.00)pm or 15.00 or 2 days 7 h or 48 + 7 or 24 + 24 + 7
	Additional Guidance		
	Allow 1500 or 15:00 for 15.00 Do not allow 15 or 15(00)pm for 15.00		
	Allow 3 (o'clock) in the afternoon for 3(.00)pm Do not allow 03.00pm for 3(.00)pm		
	Do not ignore incorrect conversion of time eg 1300 = 3 pm		
	Mark intention eg W and 3 pm		B2
	Wed and 3 am or Wed and 3		B1
	55 – 7 = 48		B1

AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

5	Alternative method 1		
	24 ÷ 4 × 3 or 18	M1	oe
	their 18 × 60 or 1080	M1dep	oe 1080 implies M2
	1080 and $\frac{3}{4}$ (of a day)	A1	
	Alternative method 2		
	24 × 60 or 1440	M1	oe
	their 1440 ÷ 4 × 3 or 1080	M1dep	oe 1080 implies M2
	1080 and $\frac{3}{4}$ (of a day)	A1	
	Alternative method 3		
	24 ÷ 4 × 3 or 18	M1	oe
	1000 ÷ 60 or 16(.6...) or 16.7 or 17	M1	may be seen in either order (M marks not dependent) [16 h 36 m, 16 h 42 m] implies division 16 or 17 may be embedded
	16(.6...) or 16.7 or 17 or [16 h 36 m, 16 h 42 m] and 18 and $\frac{3}{4}$ (of a day)	A1	16 or 17 may be embedded

5 cont	Alternative method 4		
	24 × 60 or 1440	M1	oe
	1000 ÷ their 1440 (× 100) or $\frac{25}{36}$ or 0.69... or 69(...)%	M1dep	oe $\frac{25}{36}$ or 0.69... or 69(...)% implies M2
	$\frac{25}{36}$ and $\frac{27}{36}$ and $\frac{3}{4}$ (of a day) or 0.69... and 0.75 and $\frac{3}{4}$ (of a day) or 69(...)% and 75% and $\frac{3}{4}$ (of a day)	A1	
	Additional Guidance		
	Ignore units for the M marks but they must be correct, if given, for the A mark		
	$\frac{3}{4}$ of 24 is insufficient method unless a correct method or 18 is seen		
	Once 1000 ÷ 60 or 16 or 16.6... or 16.7 or 17 is seen in Alt method 3, ignore any incorrect conversion to hours and minutes. If the student only shows hours and minutes, they must be in the given range.		
	Do not accept $\frac{3}{4}$ (of a day) in equivalent form eg 1080 or 18		A0

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

18.

12	$3\frac{3}{4}$	B1	
	Additional Guidance		

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

19.

9	1(.00) + 3 – 5 or 1(.00) – 2 or (Time in London) 4.(00)(am) or 04:00 or New York is 2 hours behind Rio	M1	oe implied by 11(.00) allow 24 + 1(.00) + 3 – 5 or 24 + 1(.00) – 2
	11(.00)pm or 23.00	A1	correct time presentation
	Additional Guidance		
	Time notation – allow 23:00, 23.00, 23 00 or 2300		
	23.00pm		M1A0
	11(.00) or 11am or 11 o'clock		M1A0
	1 – 2 = –1 –1 with no calculation shown		M1A0 M0A0
	– 2 (hours) (only)		M0A0

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

20.

12	315	B1	
	Additional Guidance		

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

21.

1	135	B1	
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AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

22.

1	210	B1	
	Additional Guidance		

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

23.

11	Alternative method 1		
	18 (hours) or 36 (half hours) or 24 (minutes per hour)	B1	their hours $\times 2 \times 12$ implies 24
	18 $\times 2 \times 12$ or 18 $\times 24$ or their hours $\times 2 \times 12$ or their hours $\times 24$ or 36 $\times 12$ or their half hours $\times 12$	M1	oe
	432	A1	Ignore fw in an attempt to convert 432 minutes to hours and minutes
	Alternative method 2		
	Build up method using 12 minutes or 24 minutes with at least three additions	M1	
	36 additions using 12 minutes or 18 additions using 24 minutes	M1dep	
	432	A1	Ignore fw in an attempt to convert 432 minutes to hours and minutes

Additional Guidance continues on the next page

		Additional Guidance	
11 cont	7 hours 12 minutes with 432 in working		B1M1A1
	7.2 hours or 7 hours 20 minutes with 432 in working		B1M1A1
	18 hours $18 \div 2 = 9$ (half hours) 9×12 108		B1M1A0
	7 hours 12 minutes without 432 in working		B1M1A0
	7.2 hours without 432 in working		B1M1A0
	their hours $\times 2 \times 12$ implies 24 eg 2 2 2 2 2 2 (6 hours, 12 half hours) 12×12 144		B1M1A0
	Condone division of their number of hours by 2 to imply an attempt to calculate their number of half hours eg 10 hours $10 \div 2 = 5$ (half hours) 5×12 60		B0M1A0

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

24.

5	$\frac{2}{3}$ or $\frac{40}{60}$ or $0.\dot{6}$	B1	Allow 0.67 or 0.66 or better
	135	B1	