

Q1. (2019)

5	Alternative method 1		
	$24 \div 4 \times 3$ 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 $1440 \div 4 \times 3$ or 1080	M1dep	oe 1080 implies M2
	1080 and $\frac{3}{4}$ (of a day)	A1	
	Alternative method 3		
	$24 \div 4 \times 3$ or 18	M1	oe
	$1000 \div 60$ or $16(6\dots)$ 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
	$16(6\dots)$ 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
	$1000 \div$ their 1440 ($\times 100$) or $\frac{25}{36}$ or 0.69... or $69(\dots)\%$	M1dep	oe $\frac{25}{36}$ or 0.69... or $69(\dots)\%$ 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 $69(\dots)\%$ 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 $1000 \div 60$ 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

Q2. (2023)

Q	Answer	Mark	Comments
9(b)	Alternative method 1 Works in min or hrs for 9 episodes and 1 episode		
	9×50 or 450 or $9 \times \frac{50}{60}$ or $\frac{450}{60}$	M1	oe eg $9 \times \frac{5}{6}$ or $\frac{45}{6}$ or $\frac{15}{2}$ or 7.5
	$60 + 42$ or 102 or $\frac{102}{60}$ oe fraction or 1.7	M1	552 or 9.2 implies M1M1
	9 hours 12 minutes	A1	SC2 9h 32min or 6h 32min or 9h 20min
	Alternative method 2 Works in min or hrs for 9 episodes and converts to hrs and min		
	9×50 or 450 or $9 \times \frac{50}{60}$ or $\frac{450}{60}$	M1	oe eg $9 \times \frac{5}{6}$ or $\frac{45}{6}$ or $\frac{15}{2}$ or 7.5 implied by 7 h 30 min
	7 h 30 min	M1	ft conversion of their 450 to hours and minutes if their $450 > 60$ or their $\frac{450}{60}$ to hours and minutes if their $\frac{450}{60} > 1$
	9 hours 12 minutes	A1	SC2 9h 32min or 6h 32min or 9h 20min
	Additional Guidance		
	7 h 50 min + 1 h 42 min = 9 h 32 min		SC2
	4 h 50 min + 1 h 42 min = 6 h 32 min		SC2
	9.2 h = 9 h 20 min		SC2