

1	1 h 45 min	B1	
	Additional Guidance		

2	Alternative method 1		
	$110 \div 2$ or 55 or $2 \div 110$ or 0.018(1...) or 0.0182 or $44 \div 110$ or 0.4 or $110 \div 44$ or 2.5	M1	oe
	$44 \div (110 \div 2)$ or 0.8 or $\frac{4}{5}$	M1dep	oe eg 2880 or calculation that would evaluate to 0.8 eg $2 \div 110 \times 44$ or $44 \div 110 \times 2$ or $2 \div (110 \div 44)$ or $\frac{110 + 44}{110 \div 2} - 2$ or $2.8 - 2$
	48	A1	
	Alternative method 2		
	$110 \div 2 \div 60$ or 0.916... or 0.917 or 0.92 or $2 \times 60 \div 110$ or 1.09(0...) or 1.091	M1	oe
	$44 \div (110 \div 2 \div 60)$	M1dep	oe calculation that would evaluate to 48 eg $44 \times 2 \times 60 \div 110$
	48	A1	

2 cont	Additional Guidance	
	Ignore units for M marks eg 55 miles	M1
	Do not award A1 if premature approximation for 48 seen eg (Alt 1) $0.018 \times 44 = 0.8$ Answer 48 (Alt 1) $0.018 \times 44 = 0.792$ and $0.792 \times 60 = 47.52$ Answer 48 (Alt 2) $44 \div 0.917 = 48$ (Alt 2) $44 \div 0.917 = 47.9$ Answer 48 (Alt 2) $44 \times 1.09 = 48$ (Alt 2) $44 \times 1.09 = 47.96$ Answer 48	M2A1 M2A0 M2A1 M2A0 M2A1 M2A0
	48 followed by answer 2 h 48 min	M2A0
	48 followed by answer 168 min	M2A0
	Allow M1 even if not subsequently used	
	Alt 1 Working in seconds leading to 2880	M2

Q	Answer	Mark	Comments
3(a)	20 + 40 or 60 or 90 or 1 (h) + 1 (h) + 30 (m) or 150 or 2(h) 30 (m)	M1	
	$2\frac{1}{2}$ or 2.5	A1	oe answer in hours eg two and a half SC1 2.3(0)
	Additional Guidance		
	Ignore rounding attempt to 2 or 3 after correct answer seen eg 2.5 in working with answer 2		M1A1
	2h 30min in working with answer 2		M1A0
	1.9(0)		M0

4(a)	<b>Alternative method 1</b> Works in min or hrs for 9 episodes and 1 episode		
	$9 \times 50$ 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 9 h 32min or 6 h 32min or 9 h 20min
	<b>Alternative method 2</b> Works in min or hrs for 9 episodes and converts to hrs and min		
	$9 \times 50$ 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 9 h 32min or 6 h 32min or 9 h 20min
	<b>Additional Guidance</b>		
	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

Q	Answer	Mark	Comments
5	65 min	B1	