2	50 pm or
13 50 evidence of intention to add on 2 to 1110 To	1.10
2	
To To To To To To To To	al 3 marks
To To To To To To To To	nutac
16, 32, 48, and 20, 40, 60 or	al 2 marks
16, 32, 48, and 20, 40, 60 or	
For starting to list at let multiples of each num one error (ft eg 16, 34, list) For 2, 2, 2, 2 or 2, 2, 5	<u>e</u>
[9] 16, [9] 32, [9] 48, and [9] 20, [9] 40, [9] 60 (or 10), or 2, 2, 2, 2 or 2, 2, 5 or 2, 2, 2, 2 or 2, 2, 5 or 16, 32, 48, 64, 80 and 20, 40, 60, 80 or [9] 16, [9] 32, [9] 48, [10] 04, [10] 20 and [9] 16, [9] 32, [9] 48, [10] 04, [10] 20 and [9] 20, [9] 40, [9] 60 (or 10), [10] 20 or 2 × 2 × 2 × 2 × 5 (= 80) or 2 ⁴ × 5 (= 80) Working not required, so correct answer scores full marks (unless from obvious incorrect working) 5 (a) D 1 B1 (b) 4 hours 52 minutes (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min 1.75	ethod e.g.
To To To To To To To To	er (allow
16, 32, 48, 64, 80 and 20, 40, 60, 80 M1 for a correct method le or the correct time (all must be correct for the this mark) or for statin	
or or the correct time (all must be correct time (all must be correct for the this mark) or for statin Or 2 × 2 × 2 × 2 × 5 (= 80) or 2 ⁴ × 5 (= 80) A1 10 20 or 10 20 am or the ten oe Working not required, so correct answer scores full marks (unless from obvious incorrect working) 10 20 A1 10 20 or 10 20 am or the ten oe 5 (a) D 1 B1 (b) 4 hours 52 minutes 2 B1 B1 (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min 3 M1 accept 60 + 25 May be implied by 70 M1 dep 1st M1 M1 dep 1st M1 A1 oe eg 1.750 or $\frac{7}{4}$	with of 16 or 20
Working not required, so correct answer scores full marks (unless from obvious incorrect working) 10 20	working award of
To To To To To To To To	venty past
(b) 4 hours 52 minutes (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min ("85" - 15) ÷ 40 (e) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min May be implied by 70 M1 dep 1st M1 A1 oe eg 1.750 or $\frac{7}{4}$	al 3 marks
(b) 4 hours 52 minutes (c) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min ("85" - 15) ÷ 40 (e) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min (may be implied by 70 minutes) (f) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 min (may be implied by 70 minutes) (f) time = 40 + 45 (= 85 minutes oe) or 1 hr 25 minutes (f) time = 40 + 4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
or 1 hr 25 min ("85" - 15) \div 40 May be implied by 70 M1 dep 1st M1 A1 oe eg 1.750 or $\frac{7}{4}$	
oe eg 1.750 or -	÷ 40
4	
(d) $ T = 40k + 15 $ 2 B1 for $40k + 15$ or $T = \pm 15$) $ Accept 40 \times k \text{ etc} $	10k + a (a
	al 8 marks
6 11 hours and 45 minutes 2 B2 for 11 hours and 45 minutes (B1 for 11 hours or 45 min	ites)
To	tal 2 marks
7 (c) 1 45 1 B1 oe e.g. 1345, quarter to two/Ignore any am or pm	

8	(a)		20 30	1	B1	allow eg 20.30 or 20:30
	(b)	eg 10:50am + 45mins = 11:35am		3	M1	for correctly working with two
		or 10:50am + 1hr10mins = 12:00pm				times
		or 2:20pm - 45mins = 1:35pm				
		or 2:20pm - 1hr10mins = 1:10pm				condone missing am or pm
		or 45mins + 1hr10mins = 1hr55mins or 115mins				
		or 10:50am to 2:20pm = 3hr30mins or 210mins				
		eg 10:50am + 45mins + 1hr10mins = 12:45pm			M1ft	for getting to a time one step from
		or 10:50am + 1hr55mins = 12:45pm				the answer or 1hr35mins or a
		or 2:20pm - 45mins - 1hr10mins = 12:25pm				correct ft from a previous error
		or 2:20pm - 1hr55mins = 12:25pm				_
		-				condone missing am or pm
		Correct answer scores full marks (unless from	95		A1	
		obvious incorrect working)				
						Total 4 marks

9	(a)	17 15	1	B1 allow 17.15 17:15 etc
	(b)	3 hours 40 minutes	2	B2 Accept 220 min or $3\frac{2}{3}$ hours (B1 for 3 (hours) or for 40 (minutes) or for an answer such as 2 hours 100 minutes)
	•			Total 3 marks