

Section A

1	(a) (i)	(0,3)	W1	
	(ii)	(1,4)	W1	
	(b)	D plotted correctly (2,1)	W1 W1	±2mm f.t. their D SC2: coordinates consistently wrong way round, but answers correct in (a) and (b)
	(c)	2	W1	c.a.o.
	(d)	12	W1	f.t. their (b)
			6	
2		fully correct method figs 256, 512, 1024, 1536, 768, 192, 32 or 3072 3072	M1 M1 A1	Gelosia method with four correct boxes W1: 3072 with no working
			3	
3	(a)	4	W1	
	(b)	18	W1	
	(c)	7	W1	
			3	
4	(a)	10	W1	
	(b)	0815	W1	(o.e.); ignore am/pm
	(c)	'Stop'/'rest'	W1	i.e. take a break
	(d) (i)	0700 – 0830 or 0 - 6	W1	allow any times/distances within this range (o.e.)
	(ii)	(line/graph) it is steeper/at its steepest	W1	any correct statement
			5	
5	(a)	0.035 0.462 0.5 0.5089 0.54	W2	W1: three correctly ordered or all correctly fully reversed
	(b)	$\frac{3}{100}$	W1	
	(c)	52	W1	
	(d)	(0).6(0...)	W1	
	(e)	$\frac{7}{10}$ and a necessary correct conversion	W1	70(%), $\frac{63}{100}$, $\frac{70}{100}$ or (0).7 and (0).63
			6	
6	(a)	100	W1	
	(b)	200	W1	
			2	
			25	