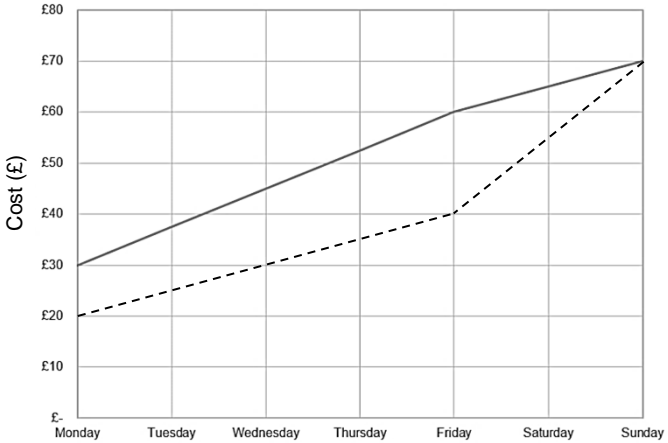
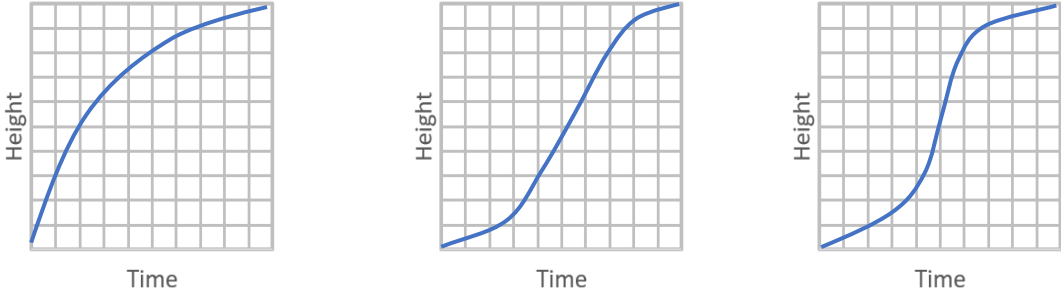


Real Life Graphs Mark Scheme

1(a)		[2] Identifying and reading of correct data from graph
	$£10 + £14 + £20 = £44$	[1] Correct total cost
1(b)	$C = \frac{1}{25}M + 8$	[1] accept $y = \frac{1}{25}x + 8$
1(c)	Monthly charge with no 0 mins – i.e. basic contract cost	[1]
1(d)		[1] Correctly plotting new line
	Cost = £16	[1]
	Minutes = 200	[1]
2(a)	$\frac{441}{7} = 63$, $63 \times 5 = £315$	[1] (divide by 1.4)
	$\frac{318}{6} = 53$, $53 \times 5 = £265$	[1] (divide by 1.2)
	$£315 + £265 = £580$	[1] Final answer

Turn over ►

2(b)	$\frac{252}{7} = 36, \quad 36 \times 5 = \text{£}180$	[1] Conversion to pounds
	$\frac{\text{£}180}{5} = 36, \quad 36 \times 6 = \text{€}216$	[1] Final answer
3		<p>[1] Correct starting point</p> <p>[1] Correct finish point</p> <p>[1] Correct graph</p>
	Both companies provide the same value for money for a week-long bicycle hire.	[1]
4(a)	Gradient decreases until it becomes zero then becomes negative. Starts and end at the same height	[1] Description
	An example could be throwing a ball	[1] Any sensible suggestion
4(b)	Height changes periodically between the same maximum and minimum.	[1] Description
	An example could be a buoy in sea bobbing up and down or an AC electrical current, a type of wave.	[1] Any sensible suggestion
5		
	[3] Mark for each correct curve	

END