## **TIME-SET-2**

1 A bus company in Dubai has the following operating times.

Day	Starting time	Finishing time
Saturday	0600	24 00
Sunday	0600	24 00
Monday	0600	24 00
Tuesday	0600	24 00
Wednesday	0600	24 00
Thursday	0600	24 00
Friday	13 00	24 00

(a) Calculate the total number of hours that the bus company operates in one week.

Answer(a) ...... h [3]

(b) Write the starting time on Friday in the 12-hour clock.

Answer(b) ......[1]

MS-1	(a)	119	3	<b>M2</b> for 18 × 6 + 11 oe
-	(a)			or <b>B1</b> for 18 or 11 or 108
	(b)	[0] 1 [00] pm cao	1	
		l	ı	
2				
	A car trav	rels a distance of 1280 <b>metres</b> at an averag	ge speed	of 64 kilometres per hour.
		the time it takes for the car to travel this or answer in <b>seconds</b> .	listance.	
				11/Ces.
				Answer s [3]
MS-2	72		3	M2 for $\frac{1280}{64} \times \frac{60 \times 60}{1000}$ M1 for working out distance ÷ speed e.g. figs $1280 \div 64$ or figs $\frac{1280}{their speed}$ or for working out km/h to m/s conversion
				e.g. $64 \times \frac{1000}{60 \times 60}$ oe
	G			or their $\left(\frac{1280}{64}\right) \times \frac{60 \times 60}{1000}$ oe
3	A train le	eaves Zurich at 22 40 and arrives in Vienna	a at 0732	2 the next day.
M		the time taken.		
				h min [1]

MS-3	047.50 ( 1 )		
	8(h) 52 (min)	1	
	1	1	
4			
	A car of length 4.3 m is travelling at 105 km/h. It passes over a bridge of length 36 m.		
	Calculate the time, in seconds, it takes to pass over	tha buidaa	completely.
	Calculate the time, in seconds, it takes to pass over	me orrage	completely.
			Co.
			s [3]
MS-4	1.38 or 1.381 to 1.382	<b>M2</b> for (	$(36+4.3) \div (105 \times \frac{1000}{60 \times 60})$ oe
		or M1 fo	or $105 \times \frac{1000}{60 \times 60}$ or for a distance ÷ a speed
	40	or SC2 f	For answer 1.23(4)
	XO	'	
5	Anna walks 31 km at a speed of 5 km/h.  Both values are correct to the nearest whole number	r.	
	Work out the upper bound of the time taken for An	na's walk.	
W.			
			hours [2]

MS-5	
	80 <b>M1</b> for $\left(\frac{12}{3}\right)^2$ or $\left(\frac{3}{12}\right)^2$ oe or $\frac{3^2}{5} = \frac{12^2}{A}$ oe
9	The distance between Prague and Vienna is 254 kilometres. The local time in Prague is the same as the local time in Vienna. A train leaves Prague at 15 20 and arrives in Vienna at 19 50 the same day.  Calculate the average speed of the train.  km/h [2]
MS-6	56.4 or 56.44 <b>2</b> M1 for $\frac{254}{their 4.5}$ or $\frac{254}{their 270} [\times 60]$
7	Giulio's reaction times are measured in two games. In the first game his reaction time is $\frac{1}{3}$ of a second. In the second game his reaction time is $\frac{1}{8}$ of a second. Find the difference between the two reaction times.
MS-7	$\frac{5}{24}$ or 0.208 or 0.2083
_	

8	The Canadian Maple Leaf train timetable	e from Toron	to to Buffa	lo is shown below.
		Toronto	1030	
		Oakville	1052	
		Aldershot	1107	
		Grimsby	1141	
		St Catharine	s 1159	
		Niagra Falls	1224	
		Buffalo	1325	
	(a) How long does the journey take fro	om Toronto to	Buffalo?	
		Answe	er(a)	h min [1]
	(b) This journey is 154 kilometres. Cal	culate the ave	rage speed	I of the train.
	111	Answe	r(b)	km/h [2]
MS-8	(a) 2h 55m (b) 52.8	1	54 ÷ (a) i	n hours or <b>M1</b> 154 x 60 / their "175"
		•		

9	A light on a computer comes on for 26700 microse	conds.	
	One microsecond is 10 <sup>-6</sup> seconds.		
	Work out the length of time, in seconds, that the lig	ht is or	1
	(a) in standard form,		
	Ans	wer(a)	s [1]
	(b) as a decimal.		600.
	Ans	wer(b)	s [1]
MS-9	(a) $2.67 \times 10^{-2}$	1	cao – must be correct notation
	<b>(b)</b> 0.0267(00)	1ft	correct or ft
10	A plane took 1 hour and 10 minutes to fly from Riy The plane arrived in Jeddah at 23 05. At what time did the plane depart from Riyadh?	adh to	Jeddah.
	Ans	wer .	[1]
MS-10	21 55	1	Allow 9.55 pm
			•

Maria decides to increase her homework tine.  Calculate her new homework time.  Give your answer in hours and minutes.  MS-11  9 h 12 min		per week by 15%.
Give your answer in hours and minutes.		
Give your answer in hours and minutes.		
MS-11 9 h 12 min		
MS-11 9 h 12 min		
MS-11 9 h 12 min	,	
MS-11 9 h 12 min		
MS-11 9 h 12 min	2	
MS-11 9 h 12 min		
MS-11 9 h 12 min	1	<i>Inswer</i> h min
MS-11 9 h 12 min		inswer min
	3	<b>M1</b> for 8 × 1.15 <b>A1</b> for 9.2
		<b>B1</b> ft independent for their 9.2 correctly converted into hours and minutes
		converted into nours and ninitaes