

## TIME-SET-2

1

A bus company in Dubai has the following operating times.

Day	Starting time	Finishing time
Saturday	06 00	24 00
Sunday	06 00	24 00
Monday	06 00	24 00
Tuesday	06 00	24 00
Wednesday	06 00	24 00
Thursday	06 00	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]

2	<p>A car travels a distance of 1280 <b>metres</b> at an average speed of 64 kilometres per hour.</p> <p>Calculate the time it takes for the car to travel this distance. Give your answer in <b>seconds</b>.</p> <p style="text-align: right;"><i>Answer</i> ..... s [3]</p>
3	<p>A train leaves Zurich at 22 40 and arrives in Vienna at 07 32 the next day.</p> <p>Work out the time taken.</p> <p style="text-align: right;">..... h ..... min [1]</p>
4	<p>A car of length 4.3 m is travelling at 105 km/h. It passes over a bridge of length 36 m.</p> <p>Calculate the time, in seconds, it takes to pass over the bridge <b>completely</b>.</p> <p style="text-align: right;">..... s [3]</p>

5	<p>Anna walks 31 km at a speed of 5 km/h. Both values are correct to the nearest whole number.</p> <p>Work out the upper bound of the time taken for Anna's walk.</p> <p style="text-align: right;">..... hours [2]</p>
6	<p>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.</p> <p>Calculate the average speed of the train.</p> <p style="text-align: right;">..... km/h [2]</p>
7	<p>Giulio's reaction times are measured in two games. In the first game his reaction time is <math>\frac{1}{3}</math> of a second. In the second game his reaction time is <math>\frac{1}{8}</math> of a second.</p> <p>Find the difference between the two reaction times.</p> <p style="text-align: right;">..... s [1]</p>

8

The Canadian Maple Leaf train timetable from Toronto to Buffalo is shown below.

Toronto	1030
Oakville	1052
Aldershot	1107
Grimsby	1141
St Catharines	1159
Niagra Falls	1224
Buffalo	1325

(a) How long does the journey take from Toronto to Buffalo?

Answer(a) ..... h ..... min [1]

(b) This journey is 154 kilometres. Calculate the average speed of the train.

Answer(b) ..... km/h [2]

9

A light on a computer comes on for 26 700 microseconds.

One microsecond is  $10^{-6}$  seconds.

Work out the length of time, in seconds, that the light is on

(a) in standard form,

Answer(a) ..... s [1]

(b) as a decimal.

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

10	<p>A plane took 1 hour and 10 minutes to fly from Riyadh to Jeddah. The plane arrived in Jeddah at 23 05. At what time did the plane depart from Riyadh?</p> <p style="text-align: right;"><i>Answer</i> ..... [1]</p>
11	<p>Maria decides to increase her homework time of 8 hours per week by 15%.</p> <p>Calculate her new homework time. Give your answer in hours and minutes.</p> <p style="text-align: right;"><i>Answer</i> ..... h ..... min [3]</p>