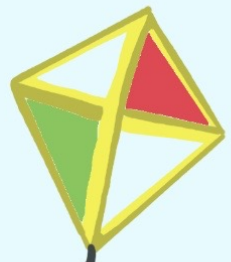


+



9

6

go!

clock

0

5

clock

go!

TIME



3

clock

8

go!

4

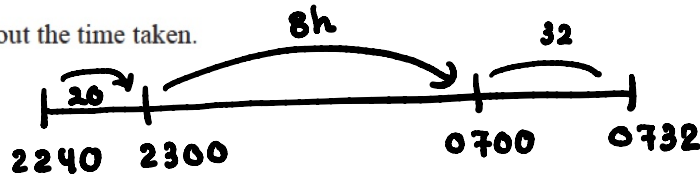


Question 1

A train leaves Zurich at 2240 and arrives in Vienna at 0732 the next day.

[1]

Work out the time taken.



8hr 52mins

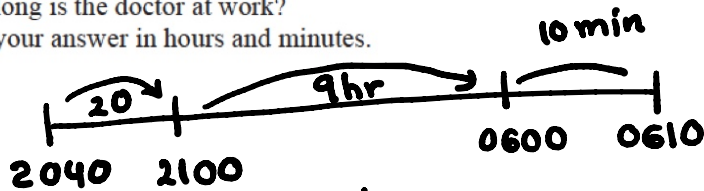
Question 2

A doctor starts work at 2040 and finishes work at 0610 the next day.

[1]

How long is the doctor at work?

Give your answer in hours and minutes.



9hr 30mins

Question 3

A bus company in Dubai has the following operating times.

| Day | Starting time | Finishing time |
|-----------|---------------|----------------|
| Saturday | 0600 | ✓ 2400 ← 18h |
| Sunday | 0600 | ✓ 2400 |
| Monday | 0600 | ✓ 2400 |
| Tuesday | 0600 | ✓ 2400 |
| Wednesday | 0600 | ✓ 2400 |
| Thursday | 0600 | ✓ 2400 |
| Friday | 1300 | 2400 |

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

[3]

$$\begin{array}{r} 4/18 \\ \times 6 \\ \hline 108 \end{array} \quad \begin{array}{r} 108 \\ +11 \\ \hline 119 \text{ hr} \end{array}$$

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

[1]

1 pm

Question 4

Christa had a music lesson every week for one year.
Each of the 52 lessons lasted for 45 minutes.

Calculate the total time that Christa spent in music lessons.
Give your time in hours.

[2]

$$\begin{array}{r}
 52 \\
 \times 45 \\
 \hline
 260 \\
 + 2080 \\
 \hline
 2340
 \end{array}$$

39 hrs

Question 5

The time in Lisbon is the same as the time in Funchal.
A plane left Lisbon at 0830 and arrived in Funchal at 1020.
It then left Funchal at 1255 and returned to Lisbon.
The return journey took 15 minutes more.

What time did the plane arrive in Lisbon?

[2]

Lisbon → Funchal 1 hr 50 min

$$\begin{array}{r}
 1\text{ hr } 50\text{ min} \\
 + 15 \\
 \hline
 2\text{ hr } 5\text{ mins}
 \end{array}$$

1255 → 2hr → 0255

$$\begin{array}{r}
 0255 \\
 + 5 \\
 \hline
 0300
 \end{array}$$

3 pm

Question 6

A shop is open during the following hours.

| | Monday to Friday | Saturday | Sunday |
|--------------|------------------|----------|--------|
| Opening time | 0645 | 0730 | 0845 |
| Closing time | 1730 | 1730 | 1200 |

(a) Write the closing time on Saturday in the 12-hour clock time.

[1]

5:30pm

(b) Calculate the total number of hours the shop is open in one week.

[2]

$$\begin{array}{r}
 0645 - 0700 = 15\text{ min} \\
 0700 - 1700 = 10\text{ hr} \\
 1700 - 1730 = 30\text{ min}
 \end{array}$$

$$\begin{array}{r}
 13\text{ hr } 15\text{ min} \\
 50\text{ hr } 225\text{ min} \\
 \hline
 63\text{ hr } 240\text{ min}
 \end{array}$$

$$\therefore 67\text{ hr}$$

Question 10

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?

[1]

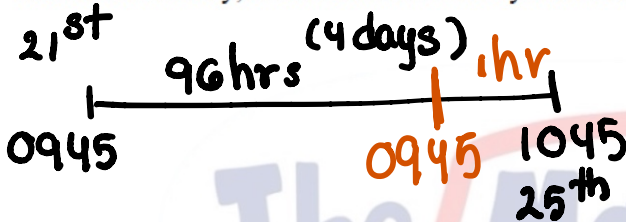
21 55

Question 11

A cyclist left Melbourne on Wednesday 21 May at 09 45 to travel to Sydney.
The journey took 97 hours.

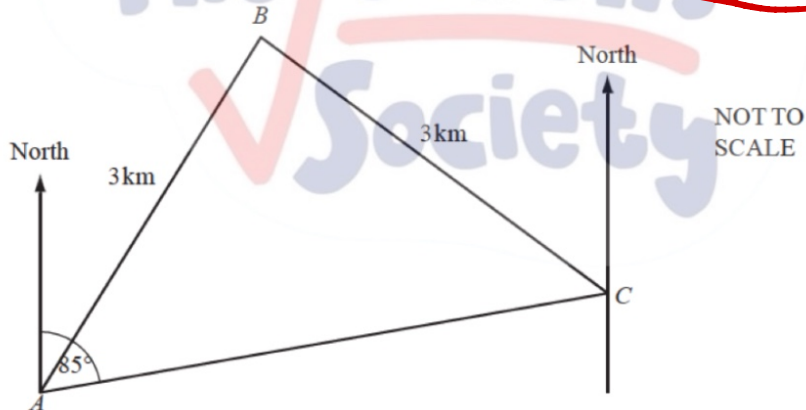
[3]

Write down the day, date and time that the cyclist arrived in Sydney.



25 May 1045

Question 12



A , B and C are three places in a desert. Tom leaves A at 06 40 and takes 30 minutes to walk directly to B , a distance of 3 kilometres. He then takes an hour to walk directly from B to C , also a distance of 3 kilometres.

(a) At what time did Tom arrive at C ?

[1]

0810

(b) Calculate his average speed for the whole journey.

[2]

$$s = \frac{d}{t} = \frac{6}{1.5} = 4 \text{ km/h}$$

Question 13

At 05 06 Mr Ho bought 850 fish at a fish market for \$2.62 each.
95 minutes later he sold them all to a supermarket for \$2.86 each.

[1]

(a) What was the time when he sold the fish?

06 41

(b) Calculate his total profit.

[1]

$$0.24 \times 850 = 204 \$$$

Question 14

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

| | |
|---------------|-------|
| Toronto | 10 30 |
| Oakville | 10 52 |
| Aldershot | 11 07 |
| Grimsby | 11 41 |
| St Catharines | 11 59 |
| Niagra Falls | 12 24 |
| Buffalo | 13 25 |

13:30

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

[1]

2 hr 55 min

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

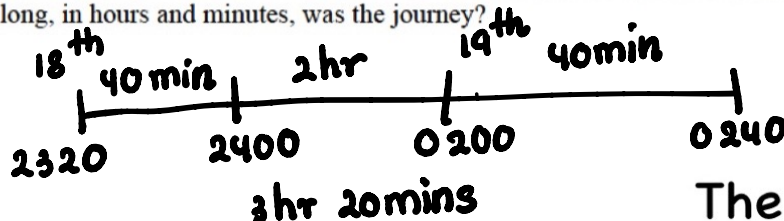
[2]

$$s = \frac{d}{t} = \frac{154}{2 \frac{1}{2}} = 52.8 \text{ km/h}$$

Question 15

A train left Sydney at 23 20 on December 18th and arrived in Brisbane at 02 40 on December 19th.
How long, in hours and minutes, was the journey?

[1]



The Maths Society