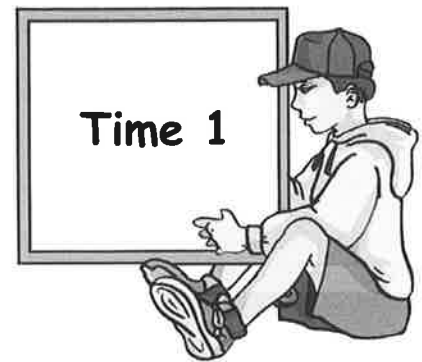





# CHAPTER 3

## Consolidation



- Write the following in 12 hour format :- (remember to use am or pm).  
a 0508      b 1735      c 1127      d 2250.
- Change these times to 24 hour format :-  
a 4.30 am      b 9.09 pm      c 20 to 11 at night      d  $\frac{1}{4}$  to 9 at night.
- Jessie went shopping at 0935 and returned home at 1325.  
How long had she been at the shops ?  

- a How many days are there in :-      (i) March      (ii) June ?  
b How many days from 27th November until 12th December, **including** both dates ?
- The film "Bad Insect" lasts for 2 hours and 14 minutes.  
"Poison Ant" runs for 1 hour and 57 minutes.  
How much shorter is the film "Poison Ant" ?  

- Russian time is 3 hours **ahead** of British time.  
This means that when it is 7 am here, it is 10 am in Moscow.  
I flew from Edinburgh Airport to freezing Moscow, leaving at 1150.  
If the flight took 2 hours 50 minutes, at what time (Moscow time),  
did I arrive at Domodedovo Airport in Moscow ?  


## Exercise 1

- What time is it :-  
a 2 hours after 0840      b 3 hours 5 minutes after 1355  
c 4 hours 30 minutes after 10.30 am      d 1 hour 10 minutes before 6.05 pm  
e 1 hour 30 minutes before 2350      f 6 hours 40 minutes after 1345  
g 2 hours 20 minutes after 2250 Monday  
h 5 hours 25 minutes before twenty to nine on a Tuesday night  
i 7 hours 7 minutes after 2053 on a Thursday ?

2. How long is it from :-

- a 3.15 pm to 8.15 pm
- b 20.45 to 23.20
- c 1325 to 2105
- d 5.30 pm to 10.20 pm
- e 2330 Wednesday to 0415 Thursday
- f 10.45 pm Friday to 6.30 am Saturday ?

3. Alan left home at 0755 and cycled to his office.  
It took him 1 hour 17 minutes to get there.



Did he manage to make a 0900 start to his work ?

4. Ryanjet flight RY789 left Glasgow Airport at 2240 on Wednesday and arrived in Dalaman Airport, Turkey at 0325 (British time) on Thursday morning.



- a How long did the flight take ?
- b Turkey is 2 hours ahead of Britain.

What time was it there when the plane landed ?

## Exercise 2



1. Here is part of a train timetable for "Glasgow to Aberdeen" and "Aberdeen to Glasgow".

Glasgow <—> Aberdeen				Aberdeen <—> Glasgow			
Glasgow	leave	0556	1741	Aberdeen	leave	0633	1830
Perth	arrive	0659	1843	Arbroath	arrive	0727	1924
	leave	0700	1844		leave	0728	1925
Carnoustie		0735	1928	Carnoustie		0734	1931
Arbroath	arrive	0742	1935	Perth	arrive	0812	2011
	leave	0744	1937		leave	0814	2013
Aberdeen		0844	2033	Glasgow		0915	2114

Write the following times in 12 hour time with am or pm :-

- a When did the evening train from Aberdeen to Glasgow leave Arbroath ?
- b When did the evening train from Glasgow to Aberdeen pass through Carnoustie ?
- c For how long do all trains stop at Perth ?
- d On the morning Aberdeen to Glasgow train, how long is it from Aberdeen to Arbroath ?
- e On the morning Glasgow to Aberdeen train, how long is it from Glasgow to Perth ?
- f I am to catch the morning train from Aberdeen for a meeting in Perth at 8.30 am.  
If the train leaves Aberdeen late at 7 am, will I still make my meeting on time ?

## Exercise 3

1. Change each of these to **minutes** and **seconds** :-

- |            |            |             |
|------------|------------|-------------|
| a 83 secs  | b 134 secs | c 212 secs  |
| d 360 secs | e 900 secs | f 730 secs. |

2. Change each of these to **hours** and **minutes** :-

- |            |             |              |
|------------|-------------|--------------|
| a 75 mins  | b 145 mins  | c 265 mins   |
| d 470 mins | e 1215 mins | f 3000 mins. |

3. Copy the following and complete :-

- |   |   |   |
|---|---|---|
| a $\begin{array}{r} 2 \text{ mins } 10 \text{ secs} \\ + 4 \text{ mins } 35 \text{ secs} \\ \hline \end{array}$ | b $\begin{array}{r} 8 \text{ mins } 50 \text{ secs} \\ + 1 \text{ mins } 40 \text{ secs} \\ \hline \end{array}$ | c $\begin{array}{r} 5 \text{ hrs } 45 \text{ mins} \\ + 4 \text{ hrs } 45 \text{ mins} \\ \hline \end{array}$ |
| d $\begin{array}{r} 7 \text{ mins } 55 \text{ secs} \\ - 3 \text{ mins } 10 \text{ secs} \\ \hline \end{array}$ | e $\begin{array}{r} 7 \text{ mins } 00 \text{ secs} \\ - 3 \text{ min } 35 \text{ secs} \\ \hline \end{array}$  | f $\begin{array}{r} 8 \text{ hrs } 20 \text{ mins} \\ - 7 \text{ hrs } 50 \text{ mins} \\ \hline \end{array}$ |

4. Four girls ran in a 4 by 1000 metre relay race. Their times were :-

- |                           |                           |
|---------------------------|---------------------------|
| • Jess - 2 mins 43 secs,  | • Ally - 2 mins 52 secs,  |
| • Sonya - 2 mins 27 secs, | • Venus - 2 mins 37 secs. |

How long did their race last **altogether** ?



## Exercise 4

1. Round the following times to 1 **decimal place** :- (e.g. 5.87 secs → 5.9 secs)

- |             |               |              |
|-------------|---------------|--------------|
| a 9.62 secs | b 27.158 secs | c 9.97 secs. |
|-------------|---------------|--------------|

2. Here are the times for the first 6 runners to finish a 400 metre race :-

- |                      |                      |                     |
|----------------------|----------------------|---------------------|
| Roberts - 46.27 secs | Tomlie - 47.26 secs  | Hastie - 45.98 secs |
| Weir - 47.15 secs    | Jonquin - 46.09 secs | Kennan - 46.90 secs |

List the 6 runners in order, **winner first**.

3. Look at the times on the two stopwatches.

Which time is faster and by how many seconds ?



4. What race time (in minutes and seconds) is

$\frac{7}{10}$  of a second **faster** than a time of 2 minutes 10.5 seconds ?

## Revision Exercise

1. If 2235 is "twenty five minutes to eleven at night" :-

Write out these times in words :-      a 0851                      b 2337.

2. Write the following in 12 hour format :- (remember to use am or pm).

a 0609              b 1845              c 1023              d 2240.

3. Change these times to 24 hour format :-

a 5.30 am              b 8.07 pm              c 5 to 11 at night      d  $\frac{1}{4}$  to 7 at night.

4. A ferry left Toff Island at 1134 and arrived at Port Aden at 1725.

How long had it taken ?



5. Round to the nearest second :-

a 13.7 secs              b 49.48 secs              c 1 min 14.25 secs      d 51 min 50.5 secs.

6. Change the following into minutes and seconds :-

a 72 secs              b 130 secs              c 202 secs              d 375 secs.

7. Write these in hours and minutes :-

a 86 mins              b 150 mins              c 193 mins              d 423 mins.

8. Copy and complete :-

<p>a      3 mins 25 secs     + 6 mins 40 secs     <u>                    </u></p>	<p>b      5 hrs 35 mins     - 1 hr 40 mins     <u>                    </u></p>
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9. Here are the times taken by four boys to spell ten words :-

- John - 24.57 secs      • Jim - 23.95 secs
- Thomas - 27.73 secs      • James - 21.8 secs.

Find the total time they took, answering in minutes and seconds.



10. Burton's time for a practice lap is shown on this stopwatch.

Alexi's time was 1 minute 22.85 seconds.

- a By how much did Alexi beat Burton ?
- b The fastest practice lap was done by Amaretto and was  $\frac{7}{100}$  of a second faster than Alexi.



What was Amaretto's time ?

