Chapter 3

Longer Time Intervals

Be able to calculate a time interval

Counting on :- As we saw in Book 2a, the easiest way of finding how long something lasts is by "**counting on**".

Example 1 :-

A late night film started at 2250 and lasted for 2 hours 15 minutes. When did it finish ?

2250 $\xrightarrow{\text{+ 2 hours}}$ 2450 (0050) $\xrightarrow{\text{+ 15 mins}}$ 0065 (= 0105) $\longrightarrow$ Finished at **0105 next day.**

Example 2 :-

How long is it from 7.05 pm on Friday until 1.30 pm on Saturday ?

| 55 mins | + 4 hours | + 13 hours | + 30 mins | = 17 hrs 85 mins |

7.05 pm   8 pm   midnight   1 pm   1.30 pm = **18 hours 25 mins.**

Exercise 1

1. What time is it :-

   a   1 hour after 0730
   b   2 hours after 1850
   c   3 hours 30 minutes after 0930
   d   4 hours 5 minutes after 1555
   e   1 hour 30 minutes after 2330
   f   3 hours 40 minutes after 1745
   g   5 hours 50 minutes after 2130 Friday
   h   6 hours 45 minutes after 1920 Tuesday
   i   7 hours 8 minutes after 2032 Monday
   j   9 hours 22 minutes after 1848 Saturday ?

2. What time is it :-

   a   2 hours after 6.50 pm
   b   3 hours after 8.32 am
   c   4 hours 30 minutes after 8 am
   d   3 hours 25 minutes after 8 pm
   e   2 hours 45 minutes after 3.15 pm
   f   4 hours 20 minutes after 9.40 pm Monday
   g   6 hours 40 minutes after 9.10 am
   h   2 hours 50 minutes after 11.40 pm Thursday
   i   5 hours 50 minutes after 11.20 pm Fri.
   j   8 hours 20 minutes after 9.50 pm Wed. ?

3. What is the time :-

   a   1 hour before 2330
   b   2 hours before 9.32 pm
   c   1 hour 30 minutes before 0240
   d   3 hours 5 minutes before 1900
   e   3 hours 20 minutes before 6.30 am
   f   1 hour 30 minutes before 0030 Sunday
   g   3 hours 20 minutes before 2 am Tues.
   h   4 hours 45 minutes before 3.15 am Wed.
   i   6 hours 25 minutes after 1950 Mon.
   j   9 hours 15 minutes after 8.15 pm on Frid. ?