

Be able to add or subtract units of time

When adding or subtracting units of time you need to remember that there are 60 seconds in 1 minute.

Adding :-

$$\begin{array}{r} 2 \text{ mins} \quad 20 \text{ secs} \\ + 6 \text{ mins} \quad 50 \text{ secs} \\ \hline 9 \text{ mins} \quad 10 \text{ secs} \end{array}$$

70 secs = 1 min 10 secs

Subtracting :-

$$\begin{array}{r} \cancel{6} \text{ mins} \quad 20 \text{ secs} \\ - 2 \text{ mins} \quad 40 \text{ secs} \\ \hline 3 \text{ mins} \quad 40 \text{ secs} \end{array}$$

60 + 20 - 40 = 40 secs

Remember:-

1 hour = 60 minutes
1 minute = 60 seconds

Exercise 3

1. One of Elvis' Rock & Roll songs "Jailhouse Rock" lasts for 155 seconds. Write this time in **minutes** and **seconds**.



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

a 80 secs

b 138 secs

c 210 secs

d 300 secs

e 930 secs

f 600 secs.

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

a 95 mins

b 135 mins

c 255 mins

d 480 mins

e 1210 mins

f 6000 mins.

4. Copy the following and complete :-

a $\begin{array}{r} 3 \text{ mins} \quad 10 \text{ secs} \\ + 5 \text{ mins} \quad 45 \text{ secs} \\ \hline \end{array}$

b $\begin{array}{r} 6 \text{ mins} \quad 40 \text{ secs} \\ + 2 \text{ mins} \quad 40 \text{ secs} \\ \hline \end{array}$

c $\begin{array}{r} 9 \text{ hrs} \quad 35 \text{ mins} \\ + 2 \text{ hrs} \quad 45 \text{ mins} \\ \hline \end{array}$

d $\begin{array}{r} 6 \text{ mins} \quad 35 \text{ secs} \\ - 3 \text{ mins} \quad 20 \text{ secs} \\ \hline \end{array}$

e $\begin{array}{r} 8 \text{ mins} \quad 00 \text{ secs} \\ - 2 \text{ min} \quad 45 \text{ secs} \\ \hline \end{array}$

f $\begin{array}{r} 9 \text{ hrs} \quad 30 \text{ mins} \\ - 8 \text{ hrs} \quad 50 \text{ mins} \\ \hline \end{array}$

5. Four men ran in a 4 by 1000 metre relay race. Their times were as follows :-

Mike - 2 mins 45 secs, Alex - 2 mins 50 secs, Eric - 2 mins 25 secs, Bill - 2 mins 35 secs.

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

6. Comet Isikiel was viewed by Julie through her telescope twice.

The first time was at 2257 on January 8th.

She next saw it at 0027 on January 10th.

How much time had passed between her 2 sightings ?



7. a How many seconds are there in April ?

b George is celebrating his 10th birthday. Approximately, how many seconds has he been alive ?