

Minutes, Seconds and Stopwatches

Be able to read stopwatches and time events

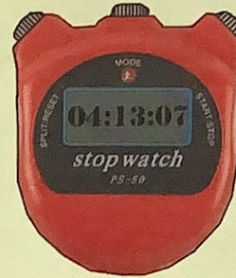
For accuracy, especially in sport, time is measured in minutes and seconds, *and the seconds are sometimes measured to 1 or 2 decimal places.*

Revision Example :-

$$\begin{array}{r}
 4 \text{ mins} \quad 30 \text{ secs} \\
 + 5 \text{ mins} \quad 50 \text{ secs} \\
 \hline
 10 \text{ mins} \quad 20 \text{ secs} \\
 \downarrow \\
 80 \text{ secs} = 1 \text{ min } 20 \text{ secs}
 \end{array}$$

This stopwatch shows the time in minutes and seconds.

The time shown is **4 minutes 13.07 seconds.**



Exercise 4

1. Revision

a Round the following times to the **nearest second** :-

(i) 32.9 secs (ii) 3 mins 15.3 secs (iii) 8 mins 7.62 secs.

b Change each of these to **minutes** and **seconds** :-

(i) 84 secs (ii) 187 secs (iii) 510 secs.

c Change each of these to **hours** and **minutes** :-

(i) 73 mins (ii) 145 mins (iii) 348 mins.

d Copy the following and complete :-

(i) $\begin{array}{r} 2 \text{ mins} \quad 40 \text{ secs} \\ + 3 \text{ mins} \quad 35 \text{ secs} \\ \hline \end{array}$ (ii) $\begin{array}{r} 1 \text{ hr} \quad 55 \text{ mins} \\ + 7 \text{ hrs} \quad 35 \text{ mins} \\ \hline \end{array}$ (iii) $\begin{array}{r} 5 \text{ mins} \quad 20 \text{ secs} \\ - 2 \text{ mins} \quad 30 \text{ secs} \\ \hline \end{array}$

2. Round the following times to **1 decimal place** :- (e.g. 4.36 secs \rightarrow 4.4 secs)

a 3.87 secs b 5.02 secs c 12.58 secs
 d 18.64 secs e 24.156 secs f 7.99 secs
 g 5.443 secs h 19.777 secs i 0.351 secs.

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

Samson - 45.27 secs **Thomson** - 46.36 secs **McGovern** - 44.78 secs
Murray - 46.45 secs **Goodwin** - 45.08 secs **Van Zanten** - 46.09 secs

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

