

Example 1**Self Tutor**

Convert 3 hours 26 minutes 18 seconds into seconds.

$$\begin{aligned} & 3 \text{ h } 26 \text{ min } 18 \text{ s} \\ &= (3 \times 3600) \text{ s} + (26 \times 60) \text{ s} + 18 \text{ s} \\ &= 12378 \text{ s} \end{aligned}$$

We use h for hours,
min for minutes,
s for seconds.

**Example 2****Self Tutor**

What is the time difference between 11:43 am and 3:18 pm?

$$\begin{aligned} 11:43 \text{ am to } 12 \text{ noon} &= 17 \text{ min} \\ 12 \text{ noon to } 3 \text{ pm} &= 3 \text{ h} \\ 3 \text{ pm to } 3:18 \text{ pm} &= 18 \text{ min} \\ \therefore \text{ the time difference is } & \underline{3 \text{ h } 35 \text{ min}} \end{aligned}$$

Example 3**Self Tutor**

What is the time $3\frac{1}{2}$ hours before 1:15 pm?

$$\begin{aligned} & 1:15 \text{ pm} - 3\frac{1}{2} \text{ hours} \\ &= 1:15 \text{ pm} - 3 \text{ h} - 30 \text{ min} \\ &= 10:15 \text{ am} - 30 \text{ min} \\ &= 9:45 \text{ am} \end{aligned}$$