## Convert from one unit of time to another



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Conversions :

1 Hour = 60 Minutes
1 Minute $=1 / 60$ Hour
1 Minute $=60$ Seconds
1 Second $=1 / 60$ Minutes


## Convert from one unit of time to another



## Convert hours into minutes

To convert hours into minutes, we have to multiply with 60.

$$
\begin{aligned}
1 \text { hour } & =60 \text { minutes } \\
2 \text { hours } & =2 \times 60 \\
& =120 \text { minutes } \\
3 \text { hours } & =3 \times 60 \\
& =180 \text { minutes }
\end{aligned}
$$

Convert 5 hours into minutes.

## Solution:

$$
\begin{aligned}
& 1 \text { hour = } 60 \text { minutes } \\
& 5 \text { hours }=5 \mathrm{X} 60 \text { minutes } \\
& =300 \text { minutes } \\
& 5 \text { hours }=300 \text { minutes }
\end{aligned}
$$

Convert 8 hours into minutes.

## Solution:

1 hour $=60$ minutes
8 hours $=8 \mathrm{X} 60$ minutes
$=480$ minutes
8 hours $=480$ minutes

## Convert hours \& minutes into minutes

## Example: 3

## Convert 6 hours and 25 minutes into minutes.

## Solution:



## Step 1:

Convert the hours into minutes.

Step 2:
Add the converted minutes with the given minutes
6 hours $=6 \mathrm{X} 60$ minutes
$=360$ minutes
$=360$ minutes

6 hours and 25 minutes $=360+25$
$=385$ minutes

6 hours and 25 minutes $=385$ minutes

## Convert minutes into seconds

To convert minutes into seconds, we have to multiply with 60.

$$
\begin{aligned}
1 \text { minute } & =60 \text { seconds } \\
2 \text { minutes } & =2 \times 60 \\
& =120 \text { seconds } \\
3 \text { minutes } & =3 \times 60 \\
& =180 \text { seconds }
\end{aligned}
$$

Example: 1
Convert 3 minutes into seconds.

## Solution:

1 minute $=60$ seconds

3 minutes $=3 \times 60$ seconds

$$
=180 \text { seconds }
$$

3 minutes $=180$ seconds

Convert 9 minutes into seconds.

## Solution:

1 minute $=60$ seconds
9 minutes $=9 \mathrm{X} 60$ seconds
= 540 seconds
9 minutes $=540$ seconds

## Convert minutes \& seconds into seconds

## Example: 3

Convert 45 minutes and 35 seconds into seconds.

## Solution:

## Step 1:

Convert the minutes into seconds.

```
45 minutes \(=45 \times 60\) seconds
    \(=2700\) seconds
```

    Step 2:
    Add the converted seconds with the given seconds
    45 minutes and 35 seconds \(=2700+35\)
        \(=2735\) seconds
    Add the converted seconds with the given seconds

45 minutes and 35 seconds $=2700+35$ $=2735$ seconds
45 minutes $=2700$ seconds

45 minutes and 35 seconds $=2735$ seconds

## Convert minutes into hours

To convert minutes to hours, we have to divide by 60.

$$
\begin{aligned}
1 \text { minute } & =1 \div 60 \text { hours } \\
60 \text { minutes } & =60 \div 60 \\
& =1 \text { hour } \\
180 \text { minutes } & =180 \div 60 \\
& =3 \text { hours }
\end{aligned}
$$

Example: 1
Convert 240 minutes into hours.

## Solution:

1 minute $=1 \div 60$ hours

240 minutes $=240 \div 60$ hours

$$
=4 \text { hours }
$$

240 minutes $=4$ hours

Convert 420 minutes into hours.

## Solution:

$$
1 \text { minute }=1 \div 60 \text { seconds }
$$

$$
420 \text { minutes }=420 \div 60 \text { hours }
$$

$$
=7 \text { hours }
$$

420 minutes $=7$ hours

## Convert seconds into minutes

To convert seconds into minutes, we have to divide by 60.

$$
\begin{aligned}
1 \text { second } & =1 \div 60 \text { minutes } \\
60 \text { seconds } & =60 \div 60 \\
& =1 \text { minute } \\
180 \text { seconds } & =180 \div 60 \\
& =3 \text { minutes }
\end{aligned}
$$

Example: 1
Convert 300 seconds into minutes.

## Solution:

1 seconds $=1 \div 60$ minutes

300 seconds $=300 \div 60$ minutes $=5$ minutes

## 300 seconds $=5$ minutes

Example: 2
Convert 600 seconds into minutes.

## Solution:

1 seconds $=1 \div 60$ minutes

600 seconds $=600 \div 60$ minutes

$$
=10 \text { minutes }
$$

600 seconds $=10$ minutes

