Convert from one unit of time to another
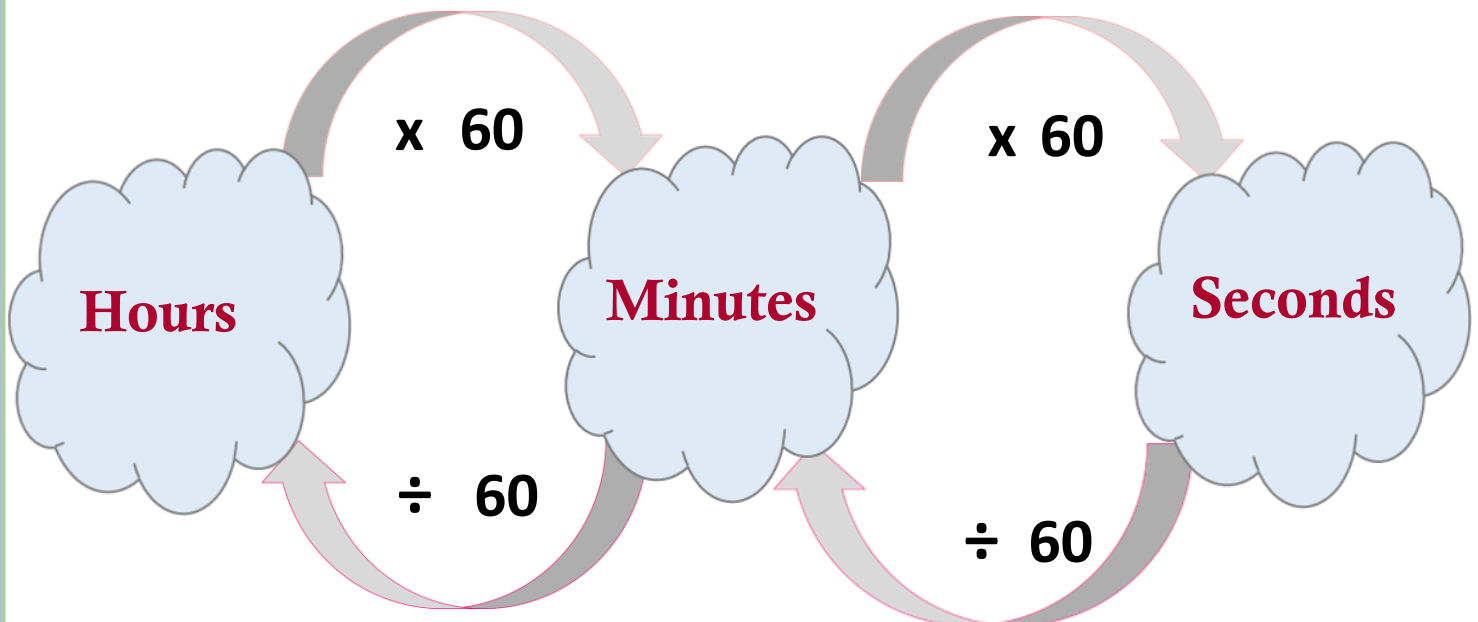
Convert from one unit of time to another

Conversions :

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

Hours   x 60 →   **Minutes**   x 60 →   **Seconds**

÷ 60   ÷ 60

Convert hours into minutes

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

1 hour = 60 minutes

2 hours = 2 X 60 = 120 minutes

3 hours = 3 X 60 = 180 minutes

Example: 1   Convert 5 hours into minutes.

Solution:

1 hour   =   60 minutes

5 hours   =   5 X 60 minutes

                =   300 minutes

5 hours   =   300 minutes

Example: 2   Convert 8 hours into minutes.

Solution:

1 hour   =   60 minutes

8 hours   =   8 X 60 minutes

                =   480 minutes

8 hours   =   480 minutes

Example: 3

Convert 6 hours and 25 minutes into minutes.

Solution:

Step 1:

Convert the hours into minutes.

6 hours = 6 X 60 minutes

= 360 minutes

6 hours = 360 minutes

Step 2:

Add the converted minutes with the given 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.

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

$$2 \text{ minutes} = 2 \times 60$$

$$= 120 \text{ seconds}$$

Example: 1   Convert 3 minutes into seconds.

Solution:

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

$$3 \text{ minutes} = 3 \times 60 \text{ seconds}$$

$$= 180 \text{ seconds}$$

$$3 \text{ minutes} = 180 \text{ seconds}$$

Example: 2   Convert 9 minutes into seconds.

Solution:

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

$$9 \text{ minutes} = 9 \times 60 \text{ seconds}$$

$$= 540 \text{ seconds}$$

$$9 \text{ minutes} = 540 \text{ seconds}$$

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 X 60 seconds

          =   2700 seconds

45 minutes   =   2700 seconds

Step 2:

Add the converted seconds with the given seconds

45 minutes and 35 seconds   =   2700 + 35

                 =   2735 seconds

45 minutes and 35 seconds = 2735 seconds

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

1 minute $\quad=\quad$ 1 ÷ 60 hours

60 minutes $\quad=\quad$ 60 ÷ 60 $\quad=\quad$ 1 hour

180 minutes $\quad=\quad$ 180 ÷ 60 $\quad=\quad$ 3 hours

Example: 1 **Convert 240 minutes into hours.**

Solution:

1 minute $\qquad=\quad$ 1 ÷ 60 hours

240 minutes $\qquad=\quad$ 240 ÷ 60 hours

$\qquad\qquad\qquad=\quad$ 4 hours

240 minutes $\qquad=\quad$ 4 hours

Example: 2 **Convert 420 minutes into hours.**

Solution:

1 minute $\qquad=\quad$ 1 ÷ 60 seconds

420 minutes $\qquad=\quad$ 420 ÷ 60 hours

$\qquad\qquad\qquad=\quad$ 7 hours

420 minutes $\qquad=\quad$ 7 hours

Convert seconds into minutes

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

1 second	=	1÷60 minutes	
60 seconds	=	60 ÷ 60	= 1 minute
180 seconds	=	180 ÷ 60	= 3 minutes

Example: 1   Convert 300 seconds into minutes.

Solution:

1 second	=	1 ÷ 60 minutes
300 seconds	=	300 ÷ 60 minutes
	=	5 minutes
300 seconds	=	5 minutes

Example: 2   Convert 600 seconds into minutes.

Solution:

1 second	=	1 ÷ 60 minutes
600 seconds	=	600 ÷ 60 minutes
	=	10 minutes
600 seconds	=	10 minutes