

Class: 4

Subject : Mathematics

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Chapter: Eleven

Time

Lecture no-01 ((Solution)

Note 1: Let's convert 1 hour, 1 day and 1 week into seconds.

SOLUTION:

(1) **Solution:** We know, 1 hour = 60 minutes.

Again , we know, 1 minutes = 60 seconds.

$$\begin{aligned}\text{Now, } 60 \text{ minutes} &= (60 \times 60) \text{ seconds.} \\ &= 3600 \text{ seconds.}\end{aligned}$$

Ans: 3600 seconds.

(2) **Solution:** We know, 1 day = 24 hours.

Again , we know, 1 hour = 60 minutes.

$$\begin{aligned}\text{Now, } 60 \text{ minutes} &= (60 \times 60) \text{ seconds} \\ &= 3600 \text{ seconds.}\end{aligned}$$

$$\begin{aligned}\text{Now, } 1 \text{ hour} &= 3600 \text{ seconds} \\ 24 \text{ hours} &= (24 \times 3600) \text{ seconds} \\ &= 86400 \text{ seconds.}\end{aligned}$$

Ans: 86400 seconds.

(3) **Solution:** We know, 1 week = 7 days.

Again , we know, 1 hour = 60 minutes.

$$\begin{aligned}\text{Now, } 60 \text{ minutes} &= (60 \times 60) \text{ seconds} \\ &= 3600 \text{ seconds.}\end{aligned}$$

$$\begin{aligned}\text{Now, } 1 \text{ hour} &= 3600 \text{ seconds} \\ 24 \text{ hours} &= (24 \times 3600) \text{ seconds} \\ &= 86400 \text{ seconds.}\end{aligned}$$

We know, 1 day = 24 hours = 86400 seconds.

$$\begin{aligned}7 \text{ days} &= (86400 \times 7) \text{ seconds} \\ &= 604800 \text{ seconds}\end{aligned}$$

Ans: 604800 seconds.

Example 1: Convert day and week into minutes.

SOLUTION:

1. **Solution:** We know, 1 day = 24 hours
Again, we know, 1 hour = 60 minutes.
Now, 24 hours = (60×24) minutes
= 1440 minutes.

Ans: 1440 minutes.

2. **Solution:** We know, 1 week = 7 days.
Again, we know, 1 day = 24 hours.
7 days = (24×7) hours.
= 168 hours.
Again, we know, 1 hour = 60 minutes
Now, 168 hours = (168×60) minutes.
= 10080 minutes.

Ans: 10080 minutes.

11.2 EXERCISE:

- (1) **Solution:** We know, 1 minutes = 60 seconds.
Now, 2 minutes = (60×2) seconds.
= 120 seconds.

Ans: 120 seconds.

2 minutes = 120 seconds.

- (2) **Solution:** We know, 1 minutes = 60 seconds.
Now, 10 minutes = (60×10) seconds.
= 600 seconds.

Ans: 600 seconds.

10 minutes = 600 seconds.

- (3) **Solution:** We know, 1 minutes = 60 seconds.
Now, 4 minutes = (60×4) seconds.
= 240 seconds.

Ans: 240 seconds.

4 minutes = 240 seconds.

(4) **Solution:** We know, 1 minutes = 60 seconds.

$$\begin{aligned}\text{Now, 5 minutes} &= (60 \times 5) \text{ seconds.} \\ &= 300 \text{ seconds.}\end{aligned}$$

Ans: 300 seconds.

5 minutes= 300 seconds.

(5) **Solution:** We know, 1 minutes = 60 seconds.

$$\begin{aligned}\text{Now, 12 minutes} &= (60 \times 12) \text{ seconds.} \\ &= 720 \text{ seconds.}\end{aligned}$$

Ans: 720 seconds.

12 minutes= 720 seconds.

(6) **Solution:** We know, 1 minutes = 60 seconds.

$$\begin{aligned}\text{Now, 20 minutes} &= (60 \times 20) \text{ seconds.} \\ &= 1200 \text{ seconds.}\end{aligned}$$

Ans: 1200 seconds.

20 minutes= 1200 seconds.
