

**SESSION : 6**

**CLASS : 3**

**SUBJECT : MATHEMATICS**

**CHAPTER NUMBER: 10**

**CHAPTER NAME : TIME**

**SUBTOPIC : RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME**

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**CHANGING YOUR TOMORROW**

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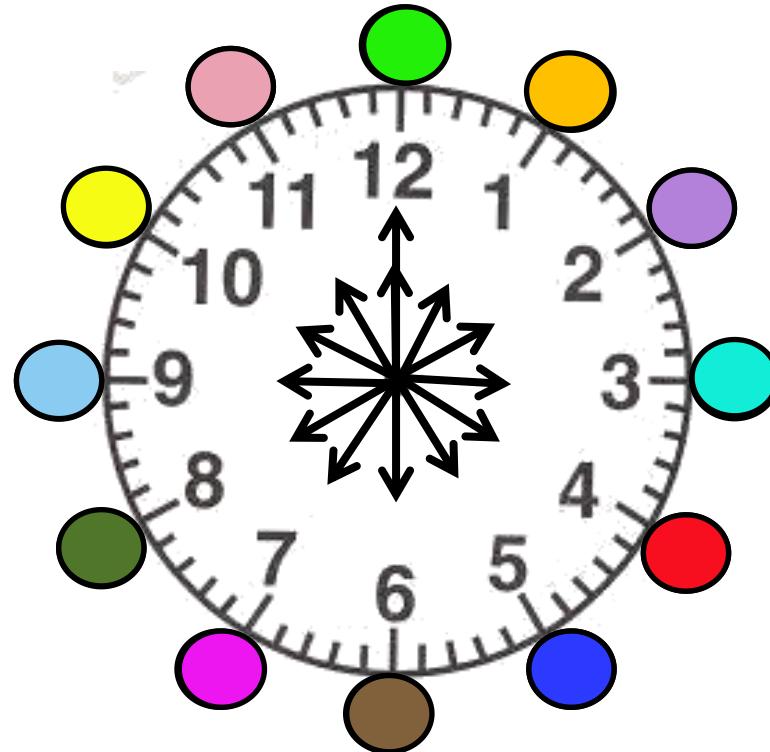
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## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

Quickly see the clock and find the time according to 24 hour clock:



### KEY POINTS TO REMEMBER



Units of time conversion chart are discussed here in hour, minute, second, day, week, month, and year.

We know that hour hand takes 12 hours to go round the clock. It goes round the clock twice in a day so, 1 day = 24 hours. The minute hand takes 60 minutes to complete one round on the clock. So, 1 hours = 60 minutes.

### KEY POINTS TO REMEMBER

Again, we know that there are 12 months in a year. The months of January, March, May, July, August, October and December have 31 days. The months of April, June, September and November have 30 days. The month of February has 28 or 29 days. In a week there are 7 days. 1 day is equal to 24 hours.



# TIME

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

The standard units of time are:

REMEMBER  
AND  
NOTE DOWN

1 hour

= 60 minutes

1 minute

= 60 seconds

1 hour

=

60 minutes

= 3600 seconds ( $60 \times 60$ )

# TIME

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

**REMEMBER  
AND  
NOTE DOWN**

 1 day =  24 hours

 1 week =  7 days

 1 year =  365 days

 1 year =  12 months

# TIME

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

Conversion	Rule	Example
Days into Hour	$1 \text{ day} = 24 \text{ hours}$	$7 \text{ days} = 7 \times 24 = 168 \text{ hours}$
Hours into Minutes	$1 \text{ hour} = 60 \text{ minutes}$	$5 \text{ hours} = 5 \times 60 = 300 \text{ minutes}$
Minutes into seconds	$1 \text{ minute} = 60 \text{ seconds}$	$25 \text{ minutes} = 60 \times 25 = 1500 \text{ seconds}$
Year into Months	$1 \text{ Year} = 12 \text{ Months}$	$5 \text{ Years} = 5 \times 12 = 60 \text{ Months}$

**EXAMPLE**

**Days and hours into hours**

First, convert days into hours by multiplying number of days with 24 and then add hours into it.

**7 days 9 hours**

**Since 1 day = 24 hours**

**so, 7 days =  $7 \times 24$  hours**

**= 168 hours**

**Thus, 7 days and 9 hours = 168 hours + 9 hours**

**= 177 hours**

Exercise-10 D  
book page - 129  
in the notebook.



### A. Convert the given number of days into hours.

1. 5 days

Since 1 day = 24 hours

$$\begin{aligned} \text{so, 5 days} &= 5 \times 24 \text{ hours} \\ &= 120 \text{ hours} \end{aligned}$$

2. 7 days

Since 1 day = 24 hours

$$\begin{aligned} \text{so, 7 days} &= 7 \times 24 \text{ hours} \\ &= 168 \text{ hours} \end{aligned}$$

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

3. 10 days

Since 1 day = 24 hours

so, 10 days =  $10 \times 24$  hours

= 240 hours

4. 12 days

Since 1 day = 24 hours

so, 12 days =  $12 \times 24$  hours

= 288 hours

**5.** 15 days

Since 1 day = 24 hours

so, 15 days =  $15 \times 24$  hours

= 360 hours

**6.** 18 days

Since 1 day = 24 hours

so, 18 days =  $18 \times 24$  hours

= 432 hours

### B. Convert the given number of days and hours into hours.

1. 2 days 2 hours

Since 1 day = 24 hours

so, 2 days =  $2 \times 24$  hours

= 48 hours

Thus, 2 days and 2 hours = 48 hours + 2 hours

= 50 hours

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

**2. 3 days 6 hours**

Since 1 day = 24 hours

so, 3 days =  $3 \times 24$  hours

= 72 hours

Thus, 3 days and 6 hours = 72 hours + 6 hours

= 78 hours

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

**3. 4 days 10 hours**

Since 1 day = 24 hours

so, 4 days =  $4 \times 24$  hours

= 96 hours

Thus, 4 days and 10 hours = 96 hours + 10 hours

= 106 hours

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

**4. 6 days 15 hours**

Since 1 day = 24 hours

so, 6 days =  $6 \times 24$  hours

= 144 hours

Thus, 6 days and 15 hours = 144 hours + 15 hours

= 159 hours

## RELATIONSHIP BETWEEN VARIOUS UNITS OF TIME

**5. 10 days 20 hours**

Since 1 day = 24 hours

so, 10 days =  $10 \times 24$  hours

= 240 hours

Thus, 10 days and 20 hours = 240 hours + 20 hours

= 260 hours

**6. 12 days 4 hours**

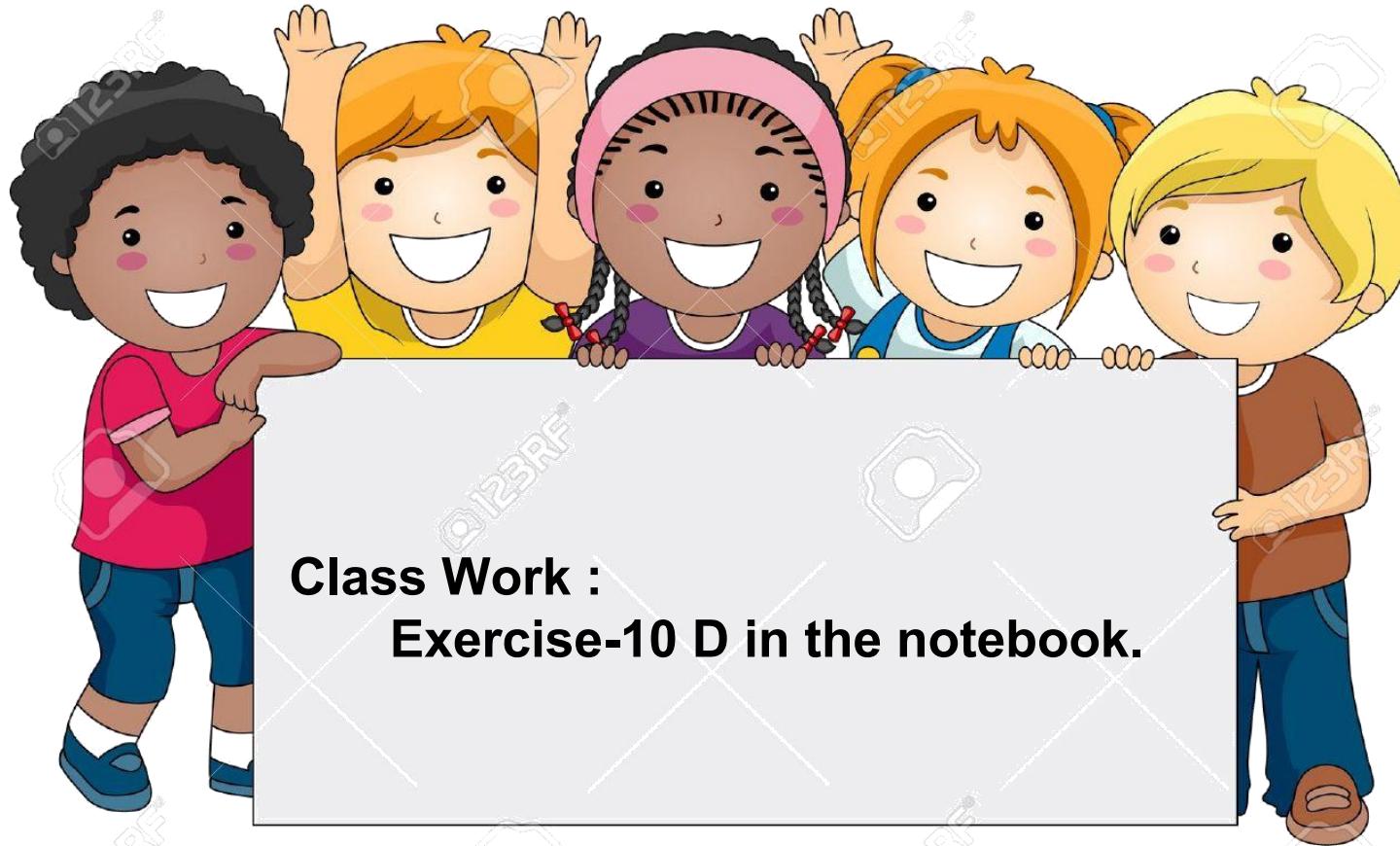
Since 1 day = 24 hours

so, 12 days =  $12 \times 24$  hours

= 288 hours

Thus, 12 days and 4 hours = 288 hours + 4 hours

= 292 hours



**Class Work :**  
**Exercise-10 D in the notebook.**

## LEARNING OUTCOME:

**Children will be able to use the four operations to convert units of time, and measure the passage of time, using seconds, minutes, hours, days, months, and years. Explain the relationship between units of time. Refine and consolidate knowledge of time conversions. Explore units of time and how to convert between them.**

**THANKING YOU**  
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