

SESSION : 22 CLASS : IV

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 15

CHAPTER NAME : TIME AND CALENDAR SUBTOPIC : CONVERSION OF TIME,

EXPLANATION, EX-15 C Q.NO. 1 TO 4

CHANGING YOUR TOMORROW

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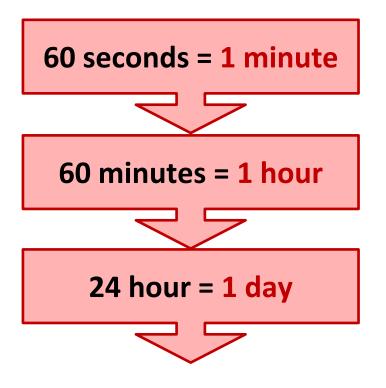
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LEARNING OBJECTIVE



 Enable the students to understand how to convert the time.







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Example: 1 Convert 15 minutes 20 seconds into seconds.

Solution: 1 minute = 60 sec.

15 minutes 20 sec. = $15 \times 60 + 20$

= 900 + 20

= 920 sec.





Example: 2 Convert 8 hours 12 minutes into minutes.

Solution: 1 hour = 60 minutes.

8 hours 12 minutes.
$$8 \times 60 + 12$$

= 492 minutes.





Example: 3 Convert 125 seconds into minutes and seconds.

Solution: 60 seconds = 1 minutes.

125 seconds =
$$125 \div 60$$



Here, the quotient 2 denotes the minutes and remainder 5 represents the seconds.

And. 2 minutes 5 seconds



Example: 4 Convert into hours

a) 7 days b) 2 days 8 hours

b)

Solution: a) 1 day = 24 hour.

$$7 \text{ days} = 7 \times 24 = 168 \text{ hours}.$$



1 day = 24 hour.

= 48 + 8



Example: 5 Convert 842 minutes into hours and minutes.



Here, the quotient 14 represents hours and remainder 2 represents the minutes.

And. 14 hours 2 minutes



minutes

Example: 6 Convert 5,248 seconds into hours, minutes and seconds.

Solution:	Step 1: First convert seconds into minutes.
	60 seconds = 1 minute
	5,248 seconds = 5248 ÷ 60 minutes

87 minutes 28 seconds



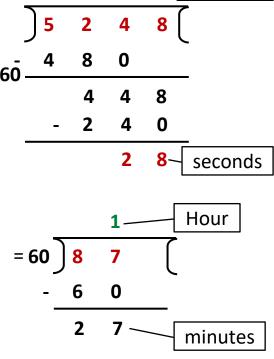
Step 2: Now, convert 87 minutes into hour (87 minutes is more than 60 minute, we can convert it into hours and minutes.)

87 minutes = 87 ÷ 60 =

1 hour 27 minutes

60 minutes = 1 hour

And. 5,248 seconds = 1 hour 27 min 28 sec



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Exercise-15(C)

- 1. Convert into hours.
 - a) 8 days
 - 1 day = 24 hours.
 - $8 \text{ days} = 8 \times 24$
 - = 192 hours.

b) 5 days 10 hours

1 day = 24 hours.

- 5 days 10 hours = $5 \times 24 + 10$
 - 120 + 10
 - **130** hours.



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Exercise-15(C)

1. Convert into hours.

- c) 10 days 20 hours
 - 1 day = 24 hours.
- 10 days 20 hours = $10 \times 24 + 20$
 - = 240 + 20
 - = 260 hours.

1 day = 24 hours.

d)

1 day 21 110 di 3.

6 days 2 hours

- 6 days 2 hours = $6 \times 24 + 2$
 - = 144 + 2
 - 146 hours



Exercise-15(C)

- 2. Convert into minutes.
 - a) 3 hour
 - 1 hour = 60 minutes.
 - $3 \text{ hour} = 3 \times 60$
 - - 180 minutes.

- b) 2 hours 6 minutes
 - 1 hour = 60 minutes.
 - 2 hour 6 minutes = $2 \times 60 + 6$
 - 120 + 6



126 minutes.

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Exercise-15(C)

2. Convert into minutes.

c) 8 hours 40 minutes

1 hour = 60 minutes.

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8 hours 40 minutes = $8 \times 60 + 40$

= 480 + 40

= 520 minutes.

d) 15 hours 30 minutes

1 hour = 60 minutes.

15 hours 30 minutes = $15 \times 60 + 30$

= 900 + 30

930 minutes.



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Exercise-15(C)

- 3. Convert into seconds.
 - a) 6 minutes
 - 1 minute = 60 seconds.
 - $6 \text{ minutes} = 6 \times 60$

 - = **360** seconds.

- b) 2 minutes 4 seconds
 - 1 minute = 60 seconds.
 - 2 minutes 6 seconds = $2 \times 60 + 4$
 - = 120 + 4
 - 124 seconds.



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Exercise-15(C)

3. Convert into seconds.

c) 40 minutes 30 seconds

1 minute = 60 seconds.

40 minutes 30 seconds = $40 \times 60 + 30$

= 2400 + 30

= **2430** seconds.

d) 1 hour 2 minutes 30 seconds

1 hour 2 minutes = $1 \times 60 + 2$

= 60 + 2

= 62 minutes.

1 minute = 60 seconds.

1 hour = 60 minutes.

62 minutes 30 seconds = $62 \times 60 + 30$ = 3720 + 30

3750 seconds.





Exercise-15(C)

- 4. Convert into minutes and seconds.
 - a) 450 seconds

60 seconds = 1 minutes.

 $450 \text{ seconds} = 450 \div 60$



Here, the quotient 7 denotes the minutes and remainder 30 represents the seconds.

And. 7 minutes 30 seconds



Exercise-15(C)

4. Convert into minutes and seconds.

b) 540 seconds

60 seconds = 1 minutes.

 $540 \text{ seconds} = 540 \div 60$



Here, the quotient 9 denotes the minutes and remainder 0 represents the seconds.

And. 9 minutes.



Exercise-15(C)

- 4. Convert into minutes and seconds.
 - c) 900 seconds

$$60 \text{ seconds} = 1 \text{ minutes.}$$

$$900 \text{ seconds} = 900 \div 60$$

$$- 6 0$$

$$- 3 0 0$$

$$- 3 0 0$$



Here, the **quotient 15** represents minutes and **remainder 0** represents the seconds.



Exercise-15(C)

- 4. Convert into minutes and seconds.
 - d) 1006 seconds

$$60 \text{ seconds} = 1 \text{ minutes.}$$

$$1 6$$

$$1006 \text{ seconds} = 1006 \div 60 = 60$$

$$- 6 0$$

$$- 6 0$$

$$- 4 0 6$$

$$- 3 6 0$$



Here, the quotient 16 represents minutes and remainder 46 represents the seconds.



HOME ASSIGNMENT:

Complete Exercise – 15 C Q.NO. 1 to 4 in your note book.

LEARNING OUTCOME:



Students are able to understand how to convert the time.



THANKING YOU ODM EDUCATIONAL GROUP