ODM EDUCATIONAL GROUP
Changing your Tomorrow

SESSION	**: 23**
CLASS	**: IV**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 15**
CHAPTER NAME	**: TIME AND CALENDAR**
SUBTOPIC	**: CONVERSION OF TIME, EX-15 C Q.NO. 5 TO 8**

LEARNING OBJECTIVE

- **Enable the students to understand how to convert the time.**

CONVERSION OF TIME

Exercise-15(C)

5. Convert into hours and minutes.

a) 135 minutes

60 minutes = 1 hours.

135 minutes = 135 ÷ 60

$$
\begin{array}{r|l}
 & 2 \\
= 60 & 1\ 3\ 5 \\
 & -\ 1\ 2\ 0 \\
\hline
 & \ 1\ 5
\end{array}
$$

Here, the **quotient 2** denotes the hours and **remainder 15** represents the minutes.

And. 2 hours 15 minutes

CONVERSION OF TIME

Exercise-15(C)

5. Convert into hours and minutes.

b) 80 minutes

60 minutes = 1 hours.

80 minutes = 80 ÷ 60

$$
\begin{array}{r|l}
 & 1 \\
\hline
= 60 & 80 \\
 & -60 \\
\hline
 & 20
\end{array}
$$

Here, the **quotient 1** denotes the hours and **remainder 20** represents the minutes.

And. 1 hour 20 minutes

CONVERSION OF TIME

Exercise-15(C)

5. Convert into hours and minutes.

c) 750 minutes

60 minutes = 1 hours.

750 minutes = 750 ÷ 60 = 60) 7 5 0 (1 2

- 6 0

1 5 0

- 1 2 0

3 0

Here, the **quotient 12** denotes the hours and **remainder 30** represents the minutes.

And. 12 hours 30 minutes

CONVERSION OF TIME

EDUCATIONAL GROUP
Changing your Tomorrow

Exercise-15(C)

5. Convert into hours and minutes.

d) 1000 minutes

60 minutes = 1 hours.

1000 minutes = 1000 ÷ 60 =

```
        1  6
    ----------
60 ) 1  0  0  0 (
   -    6  0
    ----------
        4  0  0
   -    3  6  0
    ----------
           4  0
```

Here, the **quotient 16** denotes the hours and **remainder 40** represents the minutes.

And. 16 hours 40 minutes

CONVERSION OF TIME

Exercise-15(C)

6. Convert into days and hours.

a) 72 hours

24 hours = 1 day.

72 hours = 72 ÷ 24

$$= 24 \overline{)\,72\,}\ \ 3$$

$$\begin{array}{r} 72 \\ -\ 72 \\ \hline 0 \end{array}$$

Here, the **quotient 3** represents the day and **remainder 0** represents the hour.

And. 3 days

CONVERSION OF TIME

Exercise-15(C)

6. Convert into days and hours.

b) 100 hour

24 hours = 1 day.

100 hour = 100 ÷ 24

$$
\begin{array}{r|ccc}
 & & & 4 \\ \hline
= 24 & 1 & 0 & 0 \\
- & & 9 & 6 \\ \hline
 & & 0 & 4
\end{array}
$$

Here, the **quotient 4** represents the day and **remainder 4** represents the hour.

And. 4 days 4 hours

CONVERSION OF TIME

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Exercise-15(C)

6. Convert into days and hours.

c) 145 hours

24 hours = 1 day.

145 hours = 145 ÷ 24

$$
\begin{array}{r|rrr}
 & & & 6 \\
\hline
= 24 & 1 & 4 & 5 \\
- & 1 & 4 & 4 \\
\hline
 & & 0 & 1
\end{array}
$$

Here, the **quotient 6** represents the day and **remainder 1** represents the hour.

And. 6 days 1 hour

CONVERSION OF TIME

Exercise-15(C)

6. Convert into days and hours.

d) 240 hours

24 hours = 1 day.

240 hours = 240 ÷ 24 = 24) 240 (10

- 24

000

- 000

00

Here, the **quotient 10** represents the day and **remainder 0** represents the hour.

And. 10 days

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

a) 3840 seconds

60 seconds = 1 minute.

3,840 seconds = 3,840 ÷ 60 minutes

64 minutes

```
        6   4
60 ) 3   8   4   0 (
   - 3   6   0
   ---------------
         2   4   0
       - 2   4   0
   ---------------
             0   0
```

60 minutes = 1 hour

64 minutes = 64 ÷ 60 =

1 hour 4 minutes

```
          1
= 60 ) 6   4 (
     - 6   0
     ---------
       0   4
```

And. 3,840 seconds = 1 hour 4 min 00 sec

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

b) 4,740 seconds

60 seconds = 1 minute.

4,740 seconds = 4,740 ÷ 60 minutes

79 minutes

```
        7   9
60 ) 4  7   4   0 (
   - 4  2   0
   ------------
        5   4   0
      - 5   4   0
   ------------
            0   0
```

60 minutes = 1 hour

79 minutes = 79 ÷ 60 =

1 hour 19 minutes

```
          1
= 60 ) 7  9 (
     - 6  0
     -------
       1  9
```

And. 4,740 seconds = 1 hour 19 min 00 sec

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

c) 7200 seconds

60 seconds = 1 minute.

7200 seconds = 7200 ÷ 60 minutes

120 minutes

```
        1  2  0
    ┌──────────
60  │ 7  2  0  0
  - 6  0
    ──────────
      1  2  0
    - 1  2  0
    ──────────
         0  0  0
       - 0  0  0
    ──────────
            0  0
```

60 minutes = 1 hour

120 minutes = 120 ÷ 60 =

2 hour 00 minutes

```
          2
    ┌──────
= 60│ 1  2  0
  - 1  2  0
    ──────
         0  0
```

And. 7200 seconds = 2 hours 00 min 00 sec

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

d) 8,404 seconds

60 seconds = 1 minute.

8,404 seconds = 8,404 ÷ 60 minutes

140 minutes 04 seconds

```
        1  4  0
    ┌──────────
60  │ 8  4  0  4
  - 6  0
    ──────────
      2  4  0
    - 2  4  0
    ──────────
         0  0  4
       - 0  0  0
    ──────────
            0  4
```

60 minutes = 1 hour

140 minutes = 140 ÷ 60 =

2 hour 20 minutes

```
          2
    ┌──────────
= 60│ 1  4  0
  - 1  2  0
    ──────────
         2  0
```

And. 8,404 seconds = 2 hours 20 min 04 sec

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

e) 5,555 seconds

60 seconds = 1 minute.

5,555 seconds = 5,555 ÷ 60 minutes

92 minutes 35 seconds

```
       9   2
60 ) 5  5  5  5 (
   - 5  4  0
   ----------
        1  5  5
      - 1  2  0
   ----------
           3  5
```

60 minutes = 1 hour

92 minutes = 92 ÷ 60 =

1 hour 32 minutes

```
          1
= 60 ) 9  2 (
     - 6  0
     -------
       3  2
```

And. 5,555 seconds = 1 hour 32 min 35 sec

CONVERSION OF TIME

Exercise-15(C)

7. Convert into hours, minutes and seconds.

f) 9,435 seconds

60 seconds = 1 minute.

9,435 seconds = 9,435 ÷ 60 minutes

157 minutes 15 seconds

```
        1  5  7
    ┌──────────
60  │ 9  4  3  5
  - │ 6  0
    ──────────
      3  4  3
    - 3  0  0
    ──────────
         4  3  5
       - 4  2  0
    ──────────
            1  5
```

60 minutes = 1 hour

157 minutes = 157 ÷ 60 =

2 hour 37 minutes

```
           2
    ┌──────────
= 60│ 1  5  7
  - │ 1  2  0
    ──────────
         3  7
```

And. 9,435 seconds = 2 hours 37 min 15 sec

CONVERSION OF TIME

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Exercise-15(C)

8. Match the following

Column A	Column B
(a) 11:30 am to 1:45 pm	1) 250 hours
(b) A leap year	2) 12 hours
(c) 70 minutes	3) 2 hours 15 minutes
(d) 10 days 10 hours	4) 366 days.
(e) 0200 hours to 1400 hours	5) 1 hour 600 seconds.

LEARNING OUTCOME:

Students are able to understand the conversion of time.

ODM EDUCATIONAL GROUP
Changing your Tomorrow

THANKING YOU

ODM EDUCATIONAL GROUP