

W  
10/12/21

# Conversion of time

## Exercise-15(c)

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1. Convert into hours.

a) 8 days

Ans: 1 day = 24 hours.

$$\begin{aligned} 8 \text{ day} &= 8 \times 24 \\ &= 192 \end{aligned}$$

b) 5 days 10 hours

Ans: 1 day = 24 hours

$$5 \text{ days } 10 \text{ hours} = 5 \times 24 + 10$$

$$= 120 + 10$$

$$= 130 \text{ hours.}$$

c) 10 days 20 hours

Ans: 1 day = 24 hours.

$$10 \text{ days } 20 \text{ hours} = 10 \times 24 + 20$$

$$= 240 + 20$$

$$= 260 \text{ hours.}$$

d) 6 days 2 hours

Ans: 1 days = 24 hours

$$\begin{aligned} 6 \text{ days } 2 \text{ hours} &= 6 \times 24 + 2 \\ &= 144 + 2 \\ &= 146 \text{ hours.} \end{aligned}$$

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2. Convert into minutes.

a) 3 hours

Ans: 1 hour = 60 minutes.

$$\begin{aligned} 3 \text{ hour} &= 3 \times 60 \\ &= 180 \text{ minutes} \end{aligned}$$

b) 2 hours 6 minutes

Ans: 1 hour = 60 minutes

$$\begin{aligned} 2 \text{ hour } 6 \text{ minutes} &= 2 \times 60 + 6 \\ &= 120 + 6 \\ &= 126 \text{ minutes} \end{aligned}$$

c) 8 hours 40 minutes

Ans: 1 hour = 60 minutes

$$\begin{aligned} 8 \text{ hours } 40 \text{ minutes} &= 8 \times 60 + 40 \\ &= 480 + 40 \\ &= 520 \text{ minutes} \end{aligned}$$

d) 15 hours 30 minutes

Ans: 1 hour = 60 minutes

$$\begin{aligned} 15 \text{ hours } 30 \text{ minutes} &= 15 \times 60 + 30 \\ &= 900 + 30 \\ &= 930 \text{ minutes} \end{aligned}$$

3) Convert into seconds.

a) 6 minutes

Ans: 1 minutes = 60 seconds

$$\begin{aligned} 6 \text{ minutes} &= 6 \times 60 \\ &= 360 \text{ seconds} \end{aligned}$$

b) 2 minutes 4 seconds

Ans: 1 minutes = 60 seconds

$$2 \text{ minutes } 4 \text{ seconds} = 2 \times 60 + 4 \\ = 120 + 4 = 124 \text{ seconds.}$$

c) 8 hours 40 minutes

Ans: 1 minutes = 60 seconds

$$8 \text{ hours } 40 \text{ minutes} = \overset{480}{8} \times 60 + 40 \\ = \overset{2880}{480} + \overset{2920}{40} = 520 \text{ seconds}$$

d) 1 hour 2 minutes 30 seconds

Ans: 1 minutes = 60 seconds

$$1 \text{ hour } 2 \text{ minutes } 30 \text{ seconds} = 1 \times 60 + 30 \\ = 120 + 30 = 150 \text{ seconds}$$

$$1 \text{ hour} = 60 \times 60 = 3600 \text{ second}$$

$$2 \text{ minutes} = 2 \times 60 = 120 \text{ second}$$

$$1 \text{ hour } 2 \overset{\text{minutes}}{\text{minutes}} 30 \text{ seconds} = 3600 + 120 + 30 = 5100 \text{ second}$$



4) Convert into minutes and seconds.

a) 450 seconds

Ans:  
Ans: 
$$\begin{array}{r} 7 \\ \hline 60 \overline{) 450} \\ \underline{- 420} \\ 030 \end{array}$$

~~Minutes = 7~~ ~~Seconds = 30~~ 7 minutes 30 seconds

b) 540 seconds

Ans: 
$$\begin{array}{r} 9 \\ \hline 60 \overline{) 540} \\ \underline{- 540} \\ 0 \end{array}$$

9 minutes

c) 900 seconds

Ans: 
$$\begin{array}{r} 15 \\ \hline 60 \overline{) 900} \\ \underline{- 60} \downarrow \\ 300 \\ \underline{- 300} \\ 0 \end{array}$$

15 minutes

d) 1006 seconds

Ans) ~~$$\begin{array}{r}
 \cdot 1 \\
 60 \overline{) 1006} \\
 \underline{-60} \\
 0
 \end{array}$$~~

$$\begin{array}{r}
 16 \\
 60 \overline{) 1006} \\
 \underline{-60} \downarrow \\
 406 \\
 \underline{-360} \\
 46
 \end{array}$$

16 minutes 46 seconds