

Exercise - 15(c)



17 Convert into hours.

a) 8 days

Ans- $1 \text{ day} = 24 \text{ hours}$
 $8 \text{ days} = 8 \times 24 = 192 \text{ hours}$

b) 5 days 10 hours

Ans- $1 \text{ day} = 24 \text{ hours}$
 $5 \text{ days } 10 \text{ hour} = 5 \times 24 + 10$
 $= 130$

c) 10 day 20 hours

Ans- $1 \text{ day} = 24 \text{ hours}$
 $10 \text{ days } 20 \text{ hours} = 10 \times 24 + 20$
 $= ~~240~~ 260$

d) 6 days 2 hours

Ans- $1 \text{ day} = 24 \text{ hours}$
 $6 \text{ days } 2 \text{ hours} = 6 \times 24 + 2 = 146$

2 > Convert into minutes

a > 3 hours

Ans- $1 \text{ hour} = 60 \text{ minutes}$
 $3 \text{ hour} = 3 \times 60 = 180$

b > 2 hours 6 minutes

Ans- $2 \text{ hour} = 60 \text{ minutes}$
 $2 \text{ hour } 6 \text{ minutes} = 2 \times 60 + 6$
 $= 126$

c > 8 hours 40 minutes

$1 \text{ hour} = 60 \text{ minutes}$
 $8 \text{ hour } 40 \text{ minutes} = 8 \times 60 + 40$
 $= 520$

d > 15 hours 30 minutes

Ans- $1 \text{ hour} = 60 \text{ minutes}$
 $15 \text{ hours } 30 \text{ minutes} = 15 \times 60 + 30$
 $= 930$

3 > Convert into seconds

a > 6 minutes

Ans- $1 \text{ minutes} = 60 \text{ seconds}$
 $6 \text{ minutes} = 6 \times 60 = 360$

b > 2 ~~minutes~~ minutes 4 seconds

Ans- $1 \text{ minutes} = 60 \text{ seconds}$
 $2 \text{ minutes } 4 \text{ seconds} = 2 \times 60 + 4$
 $= 124$

c > 40 minutes 30 seconds

Ans- ~~100~~ $1 \text{ minutes} = 60 \text{ seconds}$
 $40 \text{ minutes } 30 \text{ seconds} = 40 \times 60 + 30$
 $= 2430$

d > 1 hour 2 minutes 30 seconds

Ans- $1 \text{ hour} = 60 \text{ minutes}$, $1 \text{ minute} = 60 \text{ seconds}$
 $1 \text{ hour } 2 \text{ minutes } 30 \text{ seconds} = (60 + 2) \text{ minutes}$
 $+ 30 \text{ seconds}$
 $= (62 \times 60) \text{ seconds} + 30 \text{ seconds}$
 $= 3720 + 30 = 3750 \text{ seconds}$

4) Convert into minutes and seconds

a) 450 seconds

Ans- 60 seconds = 1 minutes

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

$$= 7 \text{ minutes } 30 \text{ seconds} \quad \begin{array}{r} 60 \overline{) 450} \\ \underline{-420} \end{array}$$

$$= 420$$

b) 540 seconds

$$30$$

Ans- 60 seconds = 1 minutes

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

$$= 9 \text{ minutes } 00 \text{ seconds} \quad \begin{array}{r} 60 \overline{) 540} \\ \underline{-540} \end{array}$$

$$= 540$$

c) 900 seconds

$$0$$

Ans- 60 seconds = 1 minute

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

$$= 15 \text{ minutes } 00 \text{ seconds} \quad \begin{array}{r} 60 \overline{) 900} \\ \underline{-60} \downarrow \\ 300 \\ \underline{-300} \\ 0 \end{array}$$

$$= 60 \downarrow$$

$$300$$

$$= 300$$

$$0$$

d) 1006 seconds

Ans-

60 seconds = 1 minutes

1006 seconds = $1006 \div 60$
= 16 minutes 46 seconds

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