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Exercise 15 (C)

1.

a, 8 days

1 day = 24 hours

8 days → 8 × 24 = 192 hours

b, 1 day = 24 hours

5 days 10 days = 5 × 24 + 10

= 120 + 10

= 130 hours.

c, 10 days 20 hours

1 day = 24 hours

10 days 20 hours = 10 × 24 + 20

= 240 + 20

= 260 hours.

d) 6 days 2 hours

1 day = 24 hours

6 days 2 hours = 6 x 24 + 2

= 144 + 2

= 146 hours

2. a) 3 hours

1 hour = 60 minutes

3 hour = 3 x 60

= 180 minutes.

b, 2 hours 6 minutes

1 hour = 60 minutes.

2 hours 6 minutes -

$= 2 \times 60 + 6$

$= 120 + 6$

$= 126$ minutes.

c, 8 hours 40 minutes

1 hour = 60 minutes.

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.

3. a) 6 minutes

1 minute = 60 sec

6 minute

$= 6 \times 60$

$= 360$ sec

b, 2 minutes 4 seconds

1 minutes = 60 sec.

2 minutes 4 sec.
= 60 × 2 + 4
= 120 + 4

= 124 sec

c, 40 minutes 30 seconds

1 minute = 60 sec

40 minutes 30 seconds.

= 60 × 40 + 30

= 2400 + 30

= 2430 sec

d) 1 hour 2 minutes 30 seconds.

1 hour → 3600 seconds

1 minute → 60 seconds

1 hour 2 minutes 30 seconds

$= 3600 + 2 \times 60 + 30$

$= 3600 + 120 + 30$

$= 3750$ seconds.

4. a) 450 seconds

$= 60$ seconds $= 1$ minute

$$\begin{array}{r|l} & 7 \\ \hline 60 & 450 \\ & -\ 420 \\ \hline & 30 \end{array}$$

450 Second $= 450 \div 60$

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

Ans → 7 minutes 30 seconds.

b) 540 seconds

→ 60 sec → 1 minute

→ 540 sec → 540 ÷ 60

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

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

Ans: 9 minutes.

c) 900 seconds

→ 60 sec → 1 minute

→ 900 sec → 900 ÷ 60

$$\begin{array}{r} 15 \\ 60\overline{)900} \\ -\,60\downarrow \\ \hline 300 \\ -\,300 \\ \hline 000 \end{array}$$

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

Ans: 15 minutes

d) 1006 seconds

→ 60 sec → 1 minute

→ 1006 sec → 1006 ÷ 60

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

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