Exercise 13A

1): Change to minutes: →

a) 8 hours (when we convert hours into minutes. multiply by 60)
8×60
$= 480$ minutes

b) 11 hours.
11×60
$= 660$ minutes.

c): 7 hours
7×60
$= 420$ minutes.

d) 9 hours 20 minutes
9×60
$= 540 + 20$
$= 560$ minutes.

e): 3 hours 12 minutes.
$= 3 \times 60$
$= 180 + 12$
$= 192$ minutes.

e):- 4 hours 42 minutes.
= 4 x 60
= 240 + 42
= 282 minutes.

2:- Change to hours and minutes.

a) 720 minutes. [When we convert minutes into hours we will divide]
= 720 ÷ 60
12 minutes.

$$\begin{array}{r} 12 \\ 60\overline{)720} \\ 60 \\ \hline 120 \\ 120 \\ \hline \times\times \end{array}$$

b) 132 minutes.
= 132 ÷ 60
= 2.2
2 hours and 2 minutes.

c) 130 minutes.
= 130 ÷ 60
= 2.1.
2 hours 1 minutes.

d): 360 minutes.
= 360 ÷ 60
= 6. hours

e): 410 minutes
= 410 ÷ 60
= 6.8
6 h 8 m.

f): 500 minutes.
= 500 ÷ 60.
= 8.3
= 8 h 3 m.

3): Change to seconds.

a) 13 minutes.
= 13 × 60
= 780 seconds

b): → 5 minutes.
⇒ 5 × 60
= 300 seconds

c):- 26 minutes
= 26 × 60
= 1560 second.

d):- $10\frac{1}{2}$ minutes.
= 10 × 60
= 600 + 30.
= 630 Second.

e):- 15 minutes.
= 15 × 60
= 900 second.

f):- 45 minutes.
= 45 × 60
= 2700 second.

4:- Change to minutes and seconds.

a) 840 seconds.
= 840 ÷ 60
= 14. minutes.

b) 480 seconds
= 480 ÷ 60
= 8 minutes.

c) 280 seconds
= 280 ÷ 60
= 4 m. 6. second.

d); 600 seconds
= 600 ÷ 60
= 10 m.

(e, f. H.W.)

5:→ Application in real life.

a):- A television programme "____" "____" advertisement?

→ 11 minutes
programme had = 11 minutes
second = ?
= 11 X 60
= 660 second.

b):- It takes "____" "____" "____" in a week?
minutes

→ Solve :- She spent climbing up the steps in a week?

In a one minut = 60 second.

$$60 \overline{)\,504\,(8} \quad \underline{480} \quad 24$$

Ans → 8 minutes 24 second

c) An advertisement - "____" "____" "____ be played?

solution:→

An advertisement - on radio lasted for - 30 second
Advertisement is played 10 days's = 10 × 30
= 300 sec.

minute it will be played = $\frac{5}{60)\overline{300}}$
$\underline{300}$
xxx

Ans.:→ 5 minute 'a

d):- Smriti jogged. "____" "____" "____ she jog longer?

solution:

Smriti jogged on monday = $1\frac{1}{2}$ hours
= 1 h = 60 min
= $\frac{1}{2} = \frac{60}{x} = 30$
= 30 minutes.

∴ Smriti jogged on monday = 60 + 30
= 90 min

She jogged on tuesday = 90 min

Ans:- she jogged for the same amount of time on both days.