

~~Exercise~~
~~12.2~~
~~December~~
~~Monday~~

3. Convert into hours and minutes.

a) 135 minutes

60 minutes = 1 hour

135 minutes = $135 \div 60$

$$= \begin{array}{r} \underline{60} \overline{) 135} \underline{2} \\ - 120 \\ \hline 15 \end{array}$$

Ans. 2 hours 15 minutes

b) 80 minutes

60 minutes = 1 hours

80 minutes = $80 \div 60$

\neq

$$= \begin{array}{r} \underline{60} \overline{) 80} \underline{1} \\ - 60 \\ \hline 20 \end{array}$$

Ans. 1 hour 20 minutes

5. Convert into hours and minutes

c) 750 minutes

60 minutes = 1 hours

750 minutes = $750 \div 60$

$$= \begin{array}{r} 6 \overline{) 750} \quad 12 \\ \underline{-60} \downarrow \\ 150 \\ \underline{-120} \\ 30 \end{array}$$

Ans. 12 hours 30 minutes

(d) 1000 minutes

$$60 \text{ minutes} = 1 \text{ hour}$$

$$1000 \text{ minutes} = 1000 \div 60$$

$$= \begin{array}{r} 60 \overline{) 1000} \quad 16 \\ \underline{-60} \downarrow \\ 400 \\ \underline{-360} \\ 40 \end{array}$$

Ans. 16 hours 40 minutes

6. Convert into days and hours

a) 72 hours

$$24 \text{ hours} = 1 \text{ day}$$

$$72 \text{ hours} = 72 \div 24$$

$$= \begin{array}{r} 24 \overline{) 72} \quad 3 \\ \underline{-72} \\ 0 \end{array}$$

Ans. 3 days

b) 100 hour

$$24 \text{ hour} = 1 \text{ day}$$

$$100 \text{ hour} = 100 \div 24$$

$$= \begin{array}{r|l} 24 & 100 \\ \hline & -96 \\ \hline & 04 \end{array}$$

Ans. 4 days 4 hours

c) 145 hours

24 hours = 1 day

145 hours = $145 \div 24$

$$= \begin{array}{r} 24 \overline{) 145} \quad 6 \\ \underline{-144} \\ 1 \end{array}$$

Ans. 6 days 1 hours

d) 240 hours

24 hours = 1 day

240 hours = $240 \div 24$

$$= \begin{array}{r} 24 \overline{) 240} \quad 10 \\ \underline{-240} \\ 0 \end{array}$$

Ans. 10 days

7. Convert into hours, minutes and seconds

a) 3840 seconds

60 seconds = 1 minute

3,840 seconds = $3,840 \div 60$ minutes.

64 minutes

$$\begin{array}{r}
 60 \overline{) 384064} \\
 \underline{-360} \\
 240 \\
 \underline{-240} \\
 00
 \end{array}$$

60 minutes = 1 hour

$$64 \text{ minutes} = 64 \div 60 =$$

1 hour 4 minutes

$$\begin{array}{r}
 60 \overline{) 6411} \\
 \underline{-60} \\
 04
 \end{array}$$

Ans, 3,840 seconds = 1 hour 4 min
00 sec

b) 4,740 seconds

60 seconds = 1 hour minute

$$4,740 \text{ seconds} = 4,740 \div 60 \text{ minutes}$$

79 minutes

60 minutes = 1 hour

$$79 \text{ minutes} = 79 \div 60 = 1 \text{ hour}$$

19 minutes

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

$$= 60 \overline{) 79} 1$$
$$\underline{- 60}$$
$$19$$

(c) 7200 seconds

60 seconds = 1 minute

7200 seconds = $7200 \div 60$ minutes

$$\begin{array}{r} 60 \overline{) 7200} \quad | \quad 120 \\ - 60 \downarrow \\ \hline 120 \\ - 120 \downarrow \\ \hline 00 \\ - 0 \\ \hline 0 \end{array}$$

60 minutes = 1 hour

120 minutes = $120 \div 60$

$$\begin{array}{r} 60 \overline{) 120} \quad | \quad 2 \\ - 120 \\ \hline 0 \end{array}$$

Ans. 2 hours

(d) 8404 seconds

60 seconds = 1 hour minutes

8404 seconds = $8404 \div 60$ minutes

$$\begin{array}{r}
 = 60 \overline{) 8404} \quad 140 \\
 \underline{- 60} \downarrow \\
 240 \\
 \underline{- 240} \downarrow \\
 4 \\
 \underline{- 0} \\
 4
 \end{array}$$

60 minutes = 1 hour

840 minutes = $140 \div 60$

$$\begin{array}{r}
 60 \overline{) 140} \quad 2 \\
 \underline{- 120} \\
 20
 \end{array}$$

Ans. 2 hours 20 minutes 4 seconds

e) 5555 Seconds

60 Seconds = 1 ~~hour~~ minute

5555 Seconds = $5555 \div 60$ minutes

$$\begin{array}{r} 60 \overline{) 5555} \\ \underline{-540} \\ 155 \\ \underline{-120} \\ 35 \end{array}$$

60 minutes = 1 hour

92 minutes = $92 \div 60$ minutes

$$\begin{array}{r} 60 \overline{) 92} \\ \underline{-60} \\ 32 \end{array}$$

Ans. 1 hour 32 minutes 35 Seconds

(f) 9435 seconds

60 seconds = 1 minute

9435 seconds = $9435 \div 60$ minutes

$$\begin{array}{r}
 = 60 \overline{) 9435} \quad 157 \\
 \underline{- 60 \downarrow} \\
 343 \\
 \underline{- 300 \downarrow} \\
 435 \\
 \underline{- 420} \\
 15
 \end{array}$$

60 minutes = 1 hour

157 minutes = $157 \div 60$ minutes

$$\begin{array}{r}
 = 60 \overline{) 157} \quad 2 \\
 \underline{- 120} \\
 37
 \end{array}$$

Ans. 9435 seconds = 2 hours 37 minutes
15 seconds

8. Match the following

Column A

Column B

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