

Exe 20, A

1 Convert

q) 11 hours 45 ~~and~~ minutes into minutes

Ans 1 hour = 60 min

$$11 \text{ hours } 45 \text{ minutes} = 11 \times 60 + 45 =$$

$$= 660 + 45 = 705$$

2 Convert

q) 3 days 5 hours 30 minutes into minutes

Ans 1 day = 24 hours

$$3 \text{ days } 5 \text{ hours} = 3 \times 24 + 5 = 77 \text{ hours}$$

1 hour = 60 min

$$77 \text{ h} = 77 \times 60 = 4620 \text{ min}$$

Rough

$$\begin{array}{r} 77 \\ \times 60 \\ \hline 00 \\ 4620 \end{array}$$

9 Convert

a/ 812 seconds into minutes and seconds

Ans ⁵ 60 sec = 1 min

$$812 \text{ sec } 812 \div 60 = 13 \text{ m } 52 \text{ s}$$

b/ ¹⁰ 924 minutes into hours and minutes.

Ans 60 sec = 1 min

$$924 \text{ minutes} = 924 \div 60 = 15 \text{ m}$$

¹⁵ 24 sec

Rough

$$\begin{array}{r} 15 \\ 60 \overline{) 924} \\ \underline{- 60} \\ 324 \\ \underline{- 300} \\ 24 \end{array}$$

c/ 105 hours into days and hours.

Ans ²⁰ 24 h = 1 day

$$105 \text{ hours} = 105 \div 24 = 4 \text{ days } 9 \text{ hours}$$

$$\begin{array}{r} 4 \\ 24 \overline{) 105} \\ \underline{- 96} \\ 9 \end{array}$$

Q) 745 hours into days and hours

Ans $24h = 1 \text{ day}$

$$745h = 745 \div 24 = 31 \text{ days } 1 \text{ hour}$$

Rough

$$\begin{array}{r} 31 \\ 24 \overline{) 745} \\ \underline{- 72} \\ 25 \\ \underline{- 24} \\ 1 \end{array}$$

Q) 1024 minutes into hours and

minutes

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

$$1024 \text{ minutes} = 1024 \div 60 = 17 \text{ hours}$$

4 minutes

$$\begin{array}{r} 17 \\ 60 \overline{) 1024} \\ \underline{- 60} \\ 424 \\ \underline{- 420} \\ 4 \end{array}$$

Q) Convert

a) 512 days into weeks and days

Ans $7 \text{ days} = 1 \text{ week}$

$$512 \text{ days} = 512 \div 7 = 74 \text{ weeks } 4 \text{ days}$$

$$\begin{array}{r} 74 \\ 7 \overline{) 512} \\ \underline{- 49} \\ 32 \\ \underline{- 28} \\ 4 \end{array}$$

b) 365 days into weeks and days.

Ans 7 days = 1 week

$$365 \text{ days} = 365 \div 7 = 52 \text{ weeks } 1 \text{ day}$$

c) 52 months into years and months.

Ans 12 months = 1 year

$$52 \text{ months} = 52 \div 12 = 4 \text{ years } 4 \text{ days}$$

d) 86 months into years and months

Ans 12 months = 1 year

$$86 = 86 \div 12 = 7 \text{ year } 2 \text{ months}$$

$$\begin{array}{r} 2 \overline{) 365} \\ \underline{- 35} \\ 28 \\ \underline{- 28} \\ 1 \end{array}$$

$$\begin{array}{r} 12 \overline{) 52} \\ \underline{- 48} \\ 4 \end{array}$$

$$\begin{array}{r} 12 \overline{) 86} \\ \underline{- 84} \\ 2 \end{array}$$

e) 342 days into months and days

Rough

Ans 30 days = 1 month

$$342 \text{ days} = 342 \div 30 = 11 \text{ months}$$

$$\begin{array}{r} 11 \\ 30 \overline{) 342} \\ \underline{-30} \\ 42 \\ \underline{-30} \\ 12 \end{array}$$

12 days

11. 784 days into months and days

Ans 30 days = 1 month

$$784 \text{ days} = 784 \div 30 = 26 \text{ months } 4$$

$$\begin{array}{r} 26 \\ 30 \overline{) 784} \\ \underline{-60} \\ 184 \\ \underline{-180} \\ 4 \end{array}$$

4 days

6 Convert

a) 16 hours 600 seconds into

minutes

$$\begin{array}{r} 16 \\ \times 60 \\ \hline 00 \\ \underline{-960} \\ 960 \end{array}$$

Ans 16 hours 600 seconds = 1 hour = 60 minutes

$$16 \text{ hours} = 16 \times 60 = 960 \text{ minutes}$$

$$60s = 1m$$

$$600s = 600 \div 60 = 10m$$

$$960 + 10 = 970m$$

b) 9 hours 360 second into minutes

Ans 1 hours = 60 min

$$9 \text{ hours} = 9 \times 60 = 540m$$

$$60 \text{ sec} = 1m$$

$$360 \text{ sec} = 360 \div 60 = 6m$$

$$540 + 6 = 546m$$

c) 2 days 180 minutes into hours.

Ans 1 day = 24 hours

$$2 \text{ days} = 2 \times 24 = 48 \text{ hours}$$

$$60m = 1 \text{ hours}$$

Rough

$$180 \text{ minutes} = 180 \div 60 = 2 \text{ hours}$$

$$48 + 2 = 50 \text{ hours}$$

11 9 day. 420 minutes into hours.

Ans 1 day = 24 hours

$$9 \text{ day} = 9 \times 24 = 216 \text{ hours}$$

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

$$420 \text{ minutes} = 420 \div 60 = 7 \text{ hours}$$

$$216 + 7 = 223 \text{ hours}$$

$$\begin{array}{r} 24 \\ \times 9 \\ \hline 216 \end{array}$$