

Class-5

Subject-Mathematics

Chapter-12 (Time)

Lecture- 02 (Solution)

1. Answer the following question: (Suppose that 1 month = 30 days)

- a) Convert 5 months to hours.
- b) Convert 2 years to hours.
- c) Convert 10 years to days
- d) Convert 12 years 5 months to days.
- e) Express 100000 minutes in month, day, hour and minutes.
- f) Express 10000 seconds in hour, minute and second.

Solution:

- a) 5 months
- = (5 × 30) days [: 1 month = 30 days]
- = 150 days
- = (150 × 24) hours [: 1 day = 24 hours]
- = 3600 hours

Ans: 3600 hours.

- b) 2 years
- = (2×12) months [: 1 year = 12 months]
- = 24 months
- = (24×30) days [: 1 month = 30 days]

= 720 days

- = (720×24) hours [: 1 day = 24 hours]
- = 17280 hours

Ans: 17280 hours.

c) 10 years

= (10×12) months [: 1 year = 12 months]

= 120 months

= (120 × 30) days [: 1 month = 30 days]

= 3600 days

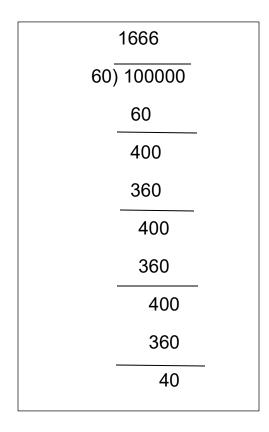
Ans: 3600 days.

d) 100000 minutes

- = (1000 ÷ 60) hours [: 1 minute = $\frac{1}{60}$ hours]
- = 1666 hours + 40 minutes
- = (1666 ÷ 24) days + 40 minutes [: 1 hour = $\frac{1}{24}$ days]
- = 69 days + 10 hours + 40 minutes
- = (69 ÷ 30) months + 10 hours + 40 minutes [: 1 day = $\frac{1}{30}$ months]
- = 2 hours + 9 days + 10 hours + 40 minutes
- = 2 hours 9 days 10 hours 40 minutes

Ans: 2 hours 9 days 10 hours 40 minutes.

Rough





f) 10000 seconds

= (10000 ÷ 60) minutes [\because 1 second = $\frac{1}{60}$ minutes]

= 166 minutes + 40 seconds

= (166 ÷ 60) hours + 40 seconds [: 1 minute = $\frac{1}{60}$ hours]

= 2 hours + 46 minutes + 40 seconds

= 2 hours 46 minutes 40 seconds

Ans: 2 hours 46 minutes 40 seconds.

2. Convert the following time written in the 12 – hour clock to the 24 – hour clock.

a) 3:00 p.m. b) 11:42 p.m. c) 0:20 a.m. d) 12:00 a.m.

Solution:

- a) 3:00 p.m. is equivalent to 15:00 in 24 hour clock.
- b) 11:42 p.m. is equivalent to 23:42 in 24 hour clock.
- c) 0:20 p.m. is equivalent to 00:20 in 24 hour clock.
- d) 12:00 a.m. is equivalent to 12:00 in 24 hour clock.

3. Convert the following time written in the 24 – hour clock to the 12 – hour clock.

a) 02:04 b) 15:34 c) 24:00 d) 21:13

Solution:

- a) 02:04 is equivalent to 2:04 a.m.
- b) 15:34 is equivalent to 3:34 p.m.

- c) 24:00 is equivalent to 00:00.
- d) 21:13 is equivalent to 9:13 p.m.

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