Class-5

Subject-Mathematics

Chapter-12 (Time)

Lecture- 04 (Solution)

1. Rakib was born on 25th February, 2010. His cousin Tanha was born after 7 days.

a. How many hours are there in February 2010?

b. Write the birth date of Tanha.

Solution:

a)

502 4) 2010 20 10 8

Since there is a remainder, which is 2. So 2010 is not a leap year. So February, 2010 has 28 days.

Now,

28 days

= (28 × 24) hours [: 1 day = 24 hours]

= 672 hours

Ans: 672 hours.

b) From 'a' we get, February, 2010 has 28 days.

 \therefore Remaining day of February = 28 – 25 = 3 days

February will end 3 days after Rakib's birthday, and then March will start.

: Tanha's birthday will be = 7 - 3 = 4 March, 2010.

Ans: 4 March, 2010.

2. Kamal spent February 2012 in Dhaka.

a. How many hours did he spend in Dhaka?

b. How many seconds did he spend in Dhaka?

Solution:

a)

$$\begin{array}{r}
 303 \\
 4) 2012 \\
 20 \\
 12 \\
 12 \\
 0
 \end{array}$$

503

Since there is no remainder, so 2012 is a leap year. So February has 29 days.

Now,

29 days

- = (29 × 24) hours [: 1 day = 24 hours]
- = 696 hours
- : Kamal spent 696 hours in Dhaka.

Ans: 696 hours.

b) From 'a' we get,

29 days = 696 hours

= (696 \times 60) minutes [: 1 hour = 60 minutes]

= 41760 minutes

= (41760×60) seconds [: 1 minutes = 60 seconds]

= 2505600 seconds

∴ Kamal spent 2505600 seconds in Dhaka.

Ans: 2505600 seconds.

3. Mita starts her study at 7:30 p.m. and goes to bed at 10:30 p.m. every day.

a. When does Mita start her study and go to bed in the 24 hour clock?

b. How many hours does she study?

Solution:

a) Mita starts her study at 7:30 p.m.

In 24 hour clock Mita starts her study at = 12:00 + 7:30 = 19:30

Again, Mita goes to bed at 10:30 p.m.

In 24 hour clock Mita goes to bed at = 12:00 + 10:30 = 22:30

Ans: 19:30 and 22:30.

b) Mita starts her study at 7:30 p.m.

Mita goes to bed at 10:30 p.m.

: She continues study for = (10:30 - 7:30) hours

Ans: 3 hours.

- 4. Salam goes to bed at 10:30 p.m. and gets up at 6 a.m. in the morning.
 - a. Express the time when Salma goes to bed in 24 hour clock.
 - b. How long does she sleep?

Solution:

a) Salma goes to bed at 10:30 p.m.

In 24 hour clock she goes to bed at = 12:00 + 10:30 = 22:30 Ans: 22:30.



∴ Salma sleep for 7 hours 30 minutes. Ans: 7 hours 30 minutes.

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