Cosmo School

Class: 5   Section: Time: 40 Minutes
Subject: Math   Topic: Time   Marks: 20

1. Write the correct answer in your answer script: 1 × 8 = 8

   a. What is calendar?

Ans: Calendar: A chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information.

   b. How many seconds are there in half an hour?

 Ans: 180 seconds.

Half an hour = 30 minutes

= (30 × 60) seconds [∵ 1 minutes = 60 seconds]

= 1800 seconds

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   c. How many days in the month of Ashwin?

Ans: 30 days.

   d. Your school breaks at 3 in the afternoon. At what time in international system does your school break?

Ans: 15:00.

   e. Was 2012 a leap year?

Ans: 2012 was a leap year.

   f. Which century is from 1901 to 2000?

Ans: 20th century.

   g. A bus starts for Kolkata at 20:40 in international system. At what time of night did the bus start?

Ans: 8:40 p.m.

   h. What is the period of 12 consecutive years called?

Ans: Era.

2. Kamal spent February 2012 in Dhaka.
   a. How many hours did he spend in Dhaka?   **2**
   b. How many seconds did he spend in Dhaka?   **2**

Solution:

a)

$$\begin{array}{r} 503 \\ 4\overline{)2012} \\ \underline{20} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

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 × 60) minutes [∵ 1 hour = 60 minutes]

         = 41760 minutes

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

= 2505600 seconds

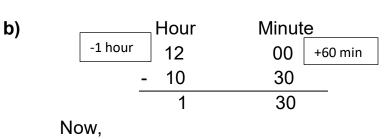∴ Kamal spent 2505600 seconds in Dhaka.

Ans: 2505600 seconds.

3. Salma 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.   **2**
   b. How long does she sleep?   **2**
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.

b)

	Hour	Minute	
-1 hour	12	00	+60 min
	- 10	30	
	1	30	

```
 60
-30
____
 30
```

Now,

Hour	Minute
6	00
+ 1	30
7	30

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

4. Rakib was born on 25th February, 2010. His cousin Tanha was born after 7 days.
   a. How many hours are there in February 2010?   **2**
   b. Write the birth date of Tanha.   **2**

Solution:

a)

```
          502
    4) 2010
       20
       ───
        10
         8
        ───
         2
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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.

∴ 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.