Chapter- 15 Time and calendar

STUDY NOTES

LEARN ABOUT:

- Telling time correct to the nearest minutes
- Conversion of time
- Calendar

***** TELLING TIME CORRECT TO THE NEAREST MINUTES-





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In the above figure the position of hour hand is nearest to two and the position of minute hand is on three. So as per the position of the minute hand, it is $3 \times 5 = 15$ minutes. The time is here 2.15.

NOTE: 2.15 – 15 minutes past 2 or quarter past two

2.30 – 30 minutes past 2 or half past two

2.45 – 45 minutes past two or quarter two 3

Example : Look at the following clock and tell the time.

(b)









Position of the hour hand		Position of the minute hand	Number of minutes	Time	Method to tell the time
(a)	Between	At 6	6 × 5 = 30	9 : 30	30 minutes past 9.
(b)	Between	At 3	3 × 5 = 15	6 : 15	15 minutes past 6.
(c)	Between	At 8	8 × 5 = 40	3 : 40	40 minutes past 3.
(d)	Between 4 and 5	At 2	2 × 5 = 10	4 : 10	10 minutes past 4.

CONVERSION OF TIME-

60 seconds = 1 minute 60 minutes = 1 hour 24 hours = 1 day



EXAMPLE-1

Convert 15 minutes 20 seconds into seconds.



EXAMPLE-3

Convert 125 seconds into minutes and seconds.

SOLUTION-

60 seconds = 1 minute 125 seconds = 125 ÷ 60 Here, the quotient 2 denotes the minutes and remainder 5 represents the seconds. 125 seconds = 2 minutes 5 seconds



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EXAMPLE-4

Convert into hours.

(i) 7 days (ii) 2 days 8 hours

SOLUTION-



EXAMPLE-6

Convert 5,248 seconds into hours, minutes and seconds.

SOLUTION-

Step – 1: First convert seconds into minutes.					
60 seconds = 1 minute					
5,248 seconds = 5,248 ÷ 60 minutes					
= 87 minutes 28 seconds					
Step – 2: Now, convert 87 minutes into hours					
(87 minutes is more than 60 minutes, we can					
convert it into hours and minutes.)					

60 minutes = 1 hour

87 minutes = 87 ÷ 60 = 1 hour 27 minutes = 1 hour 27 min 28 sec



CALENDAR-

JANU	JARY	2			2022
SUN	30	2	9	16	23
MON	31	3	10	17 [°]	24
TUE	1" How Year's Day	4	11	18	25
WED	1.3 th Locket	5	12	19	26
тни	14" Hologal	6	13	20	27
FRI	26 th Respective Deep	7	14	21	28
SAT	1	8	15	22	29
DECEMBER	2021	244	OTES	FEBRUAR	V 202
1 5 8 7 8 12 13 14 15 19 20 21 22	2 3 4 9 10 11 % 17 18 23 24 25			6 7 8 13 14 15 29 21 22	2 1 4 5 8 10 11 12 16 17 18 19 23 24 25 28

A calendar shows the dates, weeks and months of a particular year. It also gives information about holidays and festivals.



MONTHS-

There are 12 months in a year and each month contains either 30 or 31 days. But the month of February contains either 28 days or 29 days.

Months	of the Year
🐞 January	July July
💘 February	🙀 August
March	September
April	Cotober
💐 May	November
💥 June	🛵 December

The year in which February has 29 days is called a **leap year**.

Number of Days in Each Month



YEAR-

There are 365 days in a year and 366 days in a leap year.

LEAP YEAR-

A year which is exactly divisible by 4 is known as a leap year. It comes once in every four years. The next leap year will be 2020.



How many days are there from 5th April to 28th May?

SOLUTION-

Number of days in April = 30 Number of days from 5th April to 30^{th} April = 30 - 5 = 25 days Now, number of days from 5th April to 28^{th} May = 25 + 28 = 53 days

EXAMPLE – 3

Look at the calendar given below. Answer the questions follow:



a) Christmas is falling on what day?

Ans. Monday

b) What will be the date on the last Sunday OUR TOMORROW

Ans. The last Sunday will be 25th of June.

c) How many Fridays are there in the month of September?

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Ans. There are 5 Fridays i.e. 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup>.
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d) How many Saturdays and Sundays are there in the month of August?

Ans. 10

