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LESSON – 9 Time

Pre activity – Lets Begin from T.B. (Pg. No. 145)

Let's Begin

Saba and Rahil are at the airport.

Rahil, look at that board showing the flights schedule. It shows the departure time of the flights.

Time	Flight	Destination	Gate
12:00	OD 1961	NEW YORK	06
12:15	PN 0034	CHICAGO	18
12:20	T3 0529	LAS VEGAS	32
12:30	PN 2415	HONOLULU	14
12:50	GI 1872	SAN FRANCISCO	09
12:55	T3 0944	WASHINGTON	27
13:20	SF 2778	HOUSTON	20
13:45	OD 0061	MIAMI	31
13:50	BK 1932	BOSTON	04
14:05	OD 3487	NEW YORK	12
14:30	PN 0194	ATLANTA	03
14:35	SF 0028	CHICAGO	08

Yes, Saba. And the times are shown by the digital clock.



Observe the timetable in the picture, and answer the following questions.

a Draw the hands on this clock showing the departure time of flight number PN 2415.



b Look at the clocks, and circle the one showing the departure time of flight number T3 0944.



c What is the departure time of flight number SF 2778?

13:20

d Have you seen time written as in part c? How do we read it? How is it different from the regular clock? Discuss.

Concrete Stage

Use a clock to write the time for the given activities. Remember to use a.m. and p.m. to denote time in 12 hours.

Answer: Answer may vary.

Activities	12-hour clock time	24-hour clock time
Time to play		
Time to sleep		
Time for breakfast		
Time for lunch		

Pictorial Stage



1 Look at the following pictures. Write the times in a.m. or p.m.

Doing Yoga



a.m

Playing in evening



p.m

Morning walk



a.m

Eating dinner



p.m

2 Convert into 24-hour clock times.



p.m.

20:12



a.m.

21:55



p.m.

15:30

Abstract Stage

1 Match the following

- | | | | | | |
|---|--------------------------|---|---|------|-------------|
| a | 1 hour before 12:20 a.m. | ○ | ○ | i. | 12 midnight |
| b | 2 hours after 10:30 a.m. | ○ | ○ | ii. | 11:20 p.m. |
| c | 4 hours after 8 p.m. | ○ | ○ | iii. | 4:30 a.m. |
| d | 3 hours before 9:30 p.m. | ○ | ○ | iv. | 6:30 p.m. |
| e | 10 hours after 6:30 p.m. | ○ | ○ | v. | 12:30 p.m. |

2 Write the times in 24-hour format in the boxes.

- a I go out for jogging at 6:30 a.m. or 06:30 everyday.
- b I play football at 5 p.m. or 17:00 every weekends.
- c I reach school at 9:15 a.m. or 09:15 on all working days.
- d I brush my teeth at 8:45 p.m. or 20:45 before going to bed.
- e I watch television at 4:30 p.m. or 16:30 on all Sundays.

Concrete Stage

Use a clock to work out the duration. Also, record the number of times the hour, minute, and second-hand rotates.

- a School starts at 9:30 a.m. and closes at 4:30 p.m. Calculate the working hours.





Answer: 8 hours

- b The lunch time of the school starts at 12:15 p.m. and ends at 1 p.m. Calculate the duration of lunch time.

Answer: 45 min

Pictorial Stage

- 1 Look at the clocks, write the times, and find the durations.

a	Starting time		p.m.	Ending time		a.m.	Duration	<input type="text" value="50 min."/>
b	Starting time		a.m.	Ending time		p.m.	Duration	<input type="text" value="7 hrs"/>

- 2 Observe the calendar to calculate the number of days in between 1st January and 18th January.

Answer: 16 days

- 3 Calculate the number of months and days from 4th July to 10th October with the help of the given calendar.

Answer: 3 months 6 days



Abstract Stage

- 1 We went for the swimming class at 4:10 p.m. and returned at 6:05 p.m. How long was our swimming class?

Solution:

4:10 to 5:10 = 1 hours

5:10 to 6:05 = 55 minutes

So, time duration of swimming class = 1 hour 55 minutes

- 2 A flight departed from Singapore on Friday at 5:20 hours and landed at New York on Saturday 23:50 hours. What was the duration of the flight?
Answer: 18 hrs 30 mins
- 3 Fatima's camp started on 25th October and ends on 15th November. How many days was her camp?
Answer: 21 days
- 4 Sam studied in ABC School from June 2015 to November 2018. Find the number of years and months he studied there?
Answer: 3 years 5 months.

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Concrete Stage

Use the conversion table to do the following.

1 hour	1 day	1 week	1 year
60 minutes	24 hours	7 days	12 months


- a The play time of a school in the evening is from 3:30 p.m. to 4.30 p.m. Write the duration in minutes. 60 minutes
- b A school trip lasts for 2 days. Express it in hours. 48 hours
- c A painting class has been executed for 2 week 5 days. Mention it in days. 19 days


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Pictorial Stage

- 1 Look at the clocks to convert the time passed of the day into minutes.

a  633

b  705

c  360

- 2 Complete the tabular column.

10 days	<u>240</u> hours	1 week 10 hours	<u>178</u> hours
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Abstract Stage

1 Match the following.

- | | | | | |
|---|-------------------|-----------------------|------|------------|
| a | 5 years | <input type="radio"/> | i. | 126 months |
| b | 3 weeks | <input type="radio"/> | ii. | 60 months |
| c | 10 years 6 months | <input type="radio"/> | iii. | 76 hours |
| d | 4 weeks 3 days | <input type="radio"/> | iv. | 21 days |
| e | 3 days 4 hours | <input type="radio"/> | v. | 31 days |

2 Shreya had her yoga class every Saturday. Her class duration is 1 hour 45 minutes. She continued it for 4 Saturdays. Express the duration in minutes.

Answer: 420 minutes

Solution :

We know that 1 hour = 60 minutes

1 hour 45 min = 60 min + 45 min = 105 minutes

So, for 4 Saturday = $105 \times 4 = 420$ minutes

3 Manik lived in Delhi for 6 years and his friend Mayank lived in Delhi for 75 months. Who lived in the city longer?

Answer: Mayank lived longer by 3 months

Solution :

We know that 1 year = 12 months

So, 6 years = $12 \times 6 = 72$ months

Manik lived in Delhi for 72 months

Mayank lived in Delhi for 75 months

And $75 - 72 = 3$

Thus Mayank lived longer by three months.

4 How many hours are there in the month of January?

Answer: 744 hrs

Solution :

We know that there are 31 days in January month

And 1 day = 24 hours

So, 31 days = $24 \text{ hours} \times 31 = 744$ hours

Concrete Stage

Using calendar arrange these dates in order.

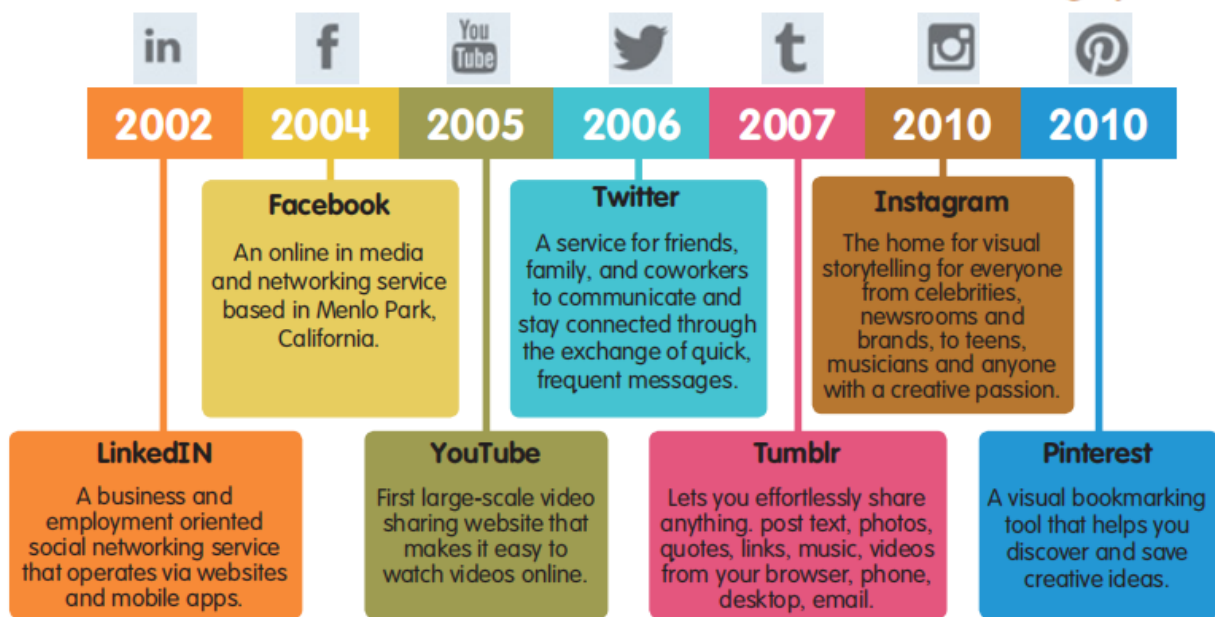
Note: Remember to check years as you arrange these dates.

12th September 2011, 11th June 2007, 14th January 2009, 7th May 2022

Answer: 11th June 2007, 14th January 2009, 12th September 2011, 7th May 2022

Pictorial Stage

Look at the timeline of the social media to answer the following questions.

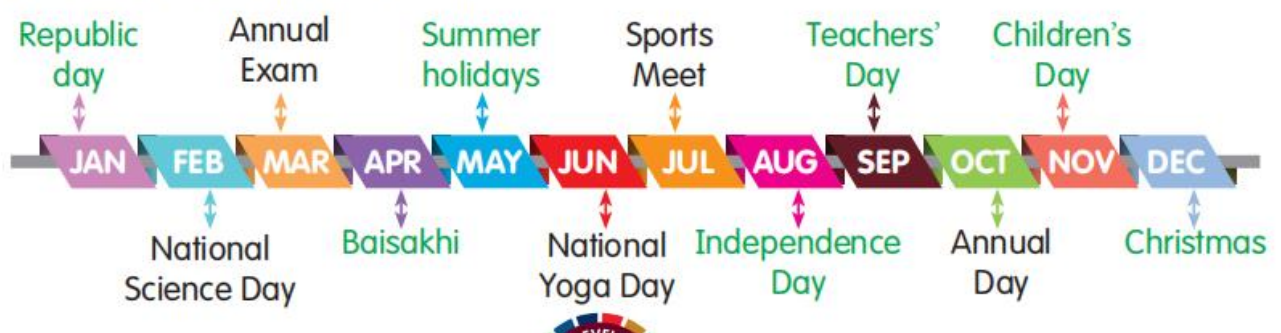


- Facebook came into existence in the year 2004.
- Facebook and Youtube were two media that came into existence between 2002 and 2006.
- Instagram and Pinterest were two media that came into existence in 2010.

Abstract Stage

Complete the timeline using the given clues.

(Independence Day, Christmas, Republic Day, Summer Holidays, Teachers' Day, Children's Day, Baisakhi)

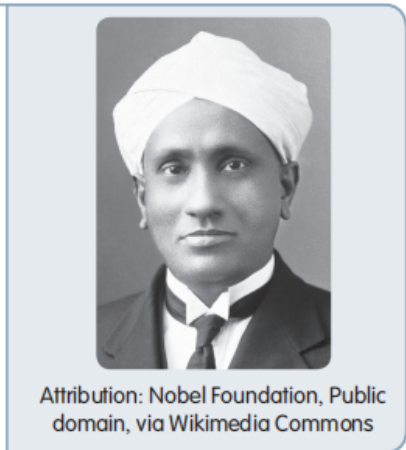


Linking Chain  EVS



Here is the timeline representing the important events of Sir C. V. Raman's life. Observe this to answer the questions.

1888	Sir C. V. Raman was born
1907	Married to Lokasundari Ammal
1917	Became the professor of Physics at the University of Calcutta
1928	Discovered the Raman Effect
1929	Conferred Knighthood
1930	Awarded the Nobel Prize for Physics
1954	Conferred the Bharat Ratna Award
1957	Awarded the Lenin Peace Prize
1970	Sir C. V. Raman died



- a Name the famous scientist who was born on 1888. Sir C.V Raman
- b In which year Sir C. V. Raman received the Nobel Prize for Physics?
1930
- c Name the award received by Sir C. V. Raman in the year 1954.
Bharat Ratna
- d In which year Raman Effect was discovered? 1928

Blooming Questions 

1 Observe the clocks, and write the times.



6:30



12:45



2:15



6:00

2 Convert these times into 24-hour clock time.

12 hour	4:25 a.m.	9:20 p.m.	2:55 p.m.	11:35 a.m.	1:07 p.m.	12:42 p.m.	6:13 p.m.
24 hour	04:25	21:20	14:55	11:35	13:07	12:42	18:13

3 Anand is baking cookies. He needs to bake them for half an hour. He puts them in an oven at 6.10 p.m. What time will the cookies be ready?

Answer: 6:40 p.m.

Solution :

We know that 1 hour = 60 minutes

So, half an hour = $60 / 2 = 30$ minutes

Thus, the cookies will ready in $6:10 + 0:30 = 6:40$ minutes

- 4 Jas's football game lasted 45 minutes. He finished playing at 3:05 p.m. What time did the game start?






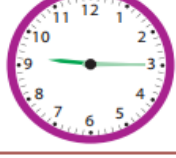
Answer: 2:20 p.m.

- 5 Harsh and his friend went on a trip to London. They stayed there for 4 weeks and 2 days. How many months did they stay in London?

Answer: 1 month

Mental Maths

Fill the time for daily routine activities given below. Draw hands on the clocks to represent the time. Draw a timeline for the same in your notebook.

Bedtime schedule			
a	I eat dinner.	8:00 p.m.	
b	I go to school.	9:00 a.m.	
c	I put on night dress.	9:00 p.m.	
d	I brush my teeth.	8:00 a.m.	
e	I go to play.	5:00 p.m.	
f	I go to bed at night.	9:15 p.m.	

Post Activity:

Solve the following

1. 7:20 am to 10:10 am = _____ hours

2. 11:30 am to 12:30 am = _____ hours

3. 5 years 6 months = _____ months

4. 4 hours 33 min = _____ minutes

5. 2 days = _____ minutes

Subject Teacher

H.O.D

Co-ordinator

Principal