

Chapter 13 Time

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Mindmap – Simple Notes

- Units of Time
 - 1 minute = 60 seconds
 - 1 hour = 60 minutes
 - 1 day = 24 hours
 - 1 week = 7 days
 - 1 month \approx 30 days (varies)
 - 1 year = 12 months = 365 days (366 in leap year)
- Reading Clocks
 - Analog clock: hour hand, minute hand, second hand
 - Digital clock: shows time in numbers (e.g., 09:30)
- AM and PM
 - AM: 12 midnight to 12 noon
 - PM: 12 noon to 12 midnight
- Calendar
 - Months with 31 days: Jan, Mar, May, Jul, Aug, Oct, Dec
 - Months with 30 days: Apr, Jun, Sep, Nov
 - February: 28 days (29 in leap year)
- Leap Year
 - Occurs every 4 years
 - Divisible by 4 (except century years not divisible by 400)
- Elapsed Time
 - Time between two events
 - Example: From 10:15 AM to 2:45 PM \rightarrow 4 hours 30 minutes
- Conversion of Time
 - Hours to minutes: $\times 60$
 - Minutes to seconds: $\times 60$
 - Days to hours: $\times 24$

Notes with Relevant Examples

1. Reading Time
 - Example: If the hour hand is at 3 and minute hand at 6, time is 3:30.
2. AM/PM Usage
 - Example: School starts at 8:00 AM; dinner is at 7:30 PM.

3. Adding Time
 - Example: Add 2 hours 45 minutes to 3:20 PM
→ $3:20 \text{ PM} + 2\text{h} = 5:20 \text{ PM}$; $+45 \text{ min} = 6:05 \text{ PM}$
 4. Subtracting Time
 - Example: Subtract 1 hour 20 minutes from 10:10 AM
→ $10:10 - 1\text{h} = 9:10 \text{ AM}$; $-20 \text{ min} = 8:50 \text{ AM}$
 5. Elapsed Time Calculation
 - Example: A movie starts at 4:15 PM and ends at 6:40 PM
→ From 4:15 to 6:15 = 2 hours; 6:15 to 6:40 = 25 min
→ Total = 2 hours 25 minutes
 6. Leap Year Identification
 - Example: $2024 \div 4 = 506$ → no remainder → leap year
 $1900 \div 400 = 4.75$ → not divisible → not leap year
 7. Days in a Month
 - Example: How many days from July 15 to August 10?
→ July has 31 days → $31 - 15 = 16$ days (July) + 10 days (Aug) = 26 days
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Unit Test

1. How many seconds are there in 5 minutes?
 2. Write 3:45 PM in 24-hour format.
 3. What is the time 2 hours 30 minutes after 11:20 AM?
 4. Is the year 2026 a leap year? Give reason.
 5. How many days are there in the month of November?
 6. A train leaves at 9:15 AM and reaches at 2:40 PM. Find the travel time.
 7. Convert 145 minutes into hours and minutes.
 8. How many hours are there in 3 days?
 9. If today is Monday, what day will it be after 10 days?
 10. Subtract 1 hour 45 minutes from 5:30 PM.
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Worksheets

Worksheet 1: Basic Concepts

1. Fill in the blanks:
 - a) 1 hour = _____ minutes
 - b) 1 day = _____ hours
 - c) There are _____ months in a year

2. Write the following times in words:
 - a) 7:15 AM
 - b) 11:50 PM
3. How many days are there in a leap year?

Worksheet 2: Time Calculations

1. Add: 3 hours 25 minutes + 2 hours 40 minutes
2. Subtract: 6:10 PM – 2 hours 35 minutes
3. A bus starts at 8:00 AM and takes 4 hours 20 minutes to reach its destination. At what time does it arrive?

Worksheet 3: Calendar & Dates

1. How many days are there from March 10 to March 25?
 2. Name the months that have 31 days.
 3. If February 1 is a Sunday, what day is February 14?
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Solutions – Unit Test

1. $5 \times 60 = 300$ seconds
 2. 15:45
 3. 11:20 AM + 2h 30m = 1:50 PM
 4. No. $2026 \div 4 = 506.5 \rightarrow$ not divisible by 4 \rightarrow not a leap year
 5. 30 days
 6. From 9:15 AM to 2:15 PM = 5 hours; +25 min = 5 hours 25 minutes
 7. $145 \div 60 = 2$ hours 25 minutes
 8. $3 \times 24 = 72$ hours
 9. $10 \div 7 = 1$ week + 3 days \rightarrow Monday + 3 days = Thursday
 10. 5:30 PM – 1h = 4:30 PM; –45 min = 3:45 PM
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Solutions – Worksheets

Worksheet 1

1. a) 60 b) 24 c) 12
2. a) Seven fifteen in the morning
b) Eleven fifty at night
3. 366 days

Worksheet 2



1. $3\text{h}25\text{m} + 2\text{h}40\text{m} = 5\text{h}65\text{m} = 6\text{ hours } 5\text{ minutes}$
2. $6:10\text{ PM} - 2\text{h} = 4:10\text{ PM}$; $-35\text{ min} = 3:35\text{ PM}$
3. $8:00\text{ AM} + 4\text{h}20\text{m} = 12:20\text{ PM}$

Worksheet 3

1. $25 - 10 = 15\text{ days}$
2. January, March, May, July, August, October, December
3. Feb 1 = Sunday \rightarrow Feb 14 = Sunday + 13 days $\rightarrow 13 \div 7 = 1\text{ week} + 6\text{ days} \rightarrow$ Saturday
- 1.