

MONTH : JANUARY

SESSION : 8

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 20

CHAPTER NAME : TIME

SUB-TOPIC : USE OF A.M AND P.M.

EXERCISE 20 B

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**CHANGING YOUR TOMORROW**

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## **LEARNING OBJECTIVE :**

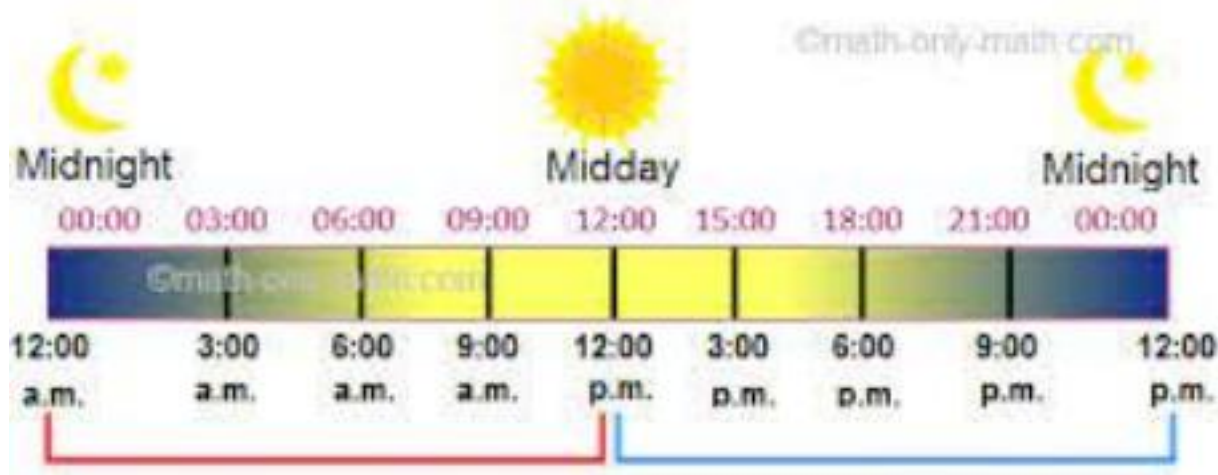
**Enable learners :**

- **To know about the time and conversion of the units using 24 hour clock.**



## USE OF A.M. & P.M.

### Expressing Time in a.m. and p.m.



- Starting from midnight 12 to 12 noon, the time is written as **A.M.** or **a.m.**
- Time from 12 noon to midnight 12 is written as **P.M.** or **p.m.**



## USE OF A.M. & P.M.

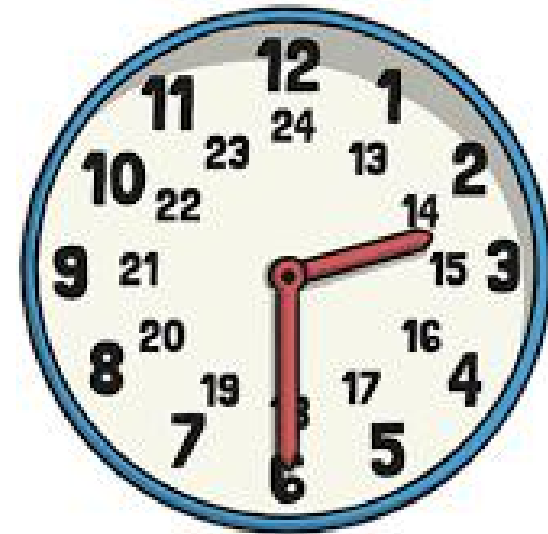
Morning 10 o'clock is written as **10 : 00 a.m.**

Night 10 o'clock is written as **10 :00 p.m.**

12 o'clock at day is written as **12 noon.**

12 o'clock at night is written as **12 midnight.**

- We follow **12 hour** clock, which follows **a.m.** and **p.m.**
- We also follow **24 hour** clock , which **doesn't** follow a.m. or p.m.





## CONVERSION OF 12 HOUR CLOCK TIME TO 24 HOUR CLOCK TIME.

➤ If the time is a.m. **replace a.m. by hour.**

Ex – 4:00 a.m. will be written as 4 : 00 hour.

➤ If the time is p.m., **add 12** to the time and **replace p.m. by hour.**

Ex – 4:00 p.m. will be written as  $4 + 12 = 16:00$  hour.

Add 12 to the hours between 1:00 and 11:59 PM and eliminate "PM"

1:00 PM = 13:00	7:00 PM = 19:00
2:00 PM = 14:00	8:00 PM = 20:00
3:00 PM = 15:00	9:00 PM = 21:00
4:00 PM = 16:00	10:00 PM = 22:00
5:00 PM = 17:00	11:00 PM = 23:00
6:00 PM = 18:00	



## CONVERSION OF 24 HOUR CLOCK TIME TO 12 HOUR CLOCK TIME.

➤ If the time is less than 12 **replace hour by a.m.**

Ex – 4 : 00 hour will be written as 4:00 a.m.

➤ If the time is more than 12 **subtract 12** to the time and **replace hour by p.m.**

Ex – 18 : 00 hour will be written as  $18:00 - 12 = 6:00$  p.m.

Add 12 to the hours between 1:00  
and 11:59 PM and eliminate "PM"

1:00 PM = 13:00	7:00 PM = 19:00
2:00 PM = 14:00	8:00 PM = 20:00
3:00 PM = 15:00	9:00 PM = 21:00
4:00 PM = 16:00	10:00 PM = 22:00
5:00 PM = 17:00	11:00 PM = 23:00
6:00 PM = 18:00	



## EXERCISE 20 – B

1. Change into 24 hr clock time
  - a. 7 : 50 p.m. = 7 : 50 + 12 = **19 : 50 hours**
  - b. 5 : 00 a.m. = **5 : 00 hours**
  - c. 12 midnight = **00 : 00 hours**
  - d. 8 : 45 a.m. = **08 : 45 hours**
  - e. 2 : 20 p.m. = 2 : 20 + 12 = **14 : 20 hours**
  - f. 4 : 40 p.m. = 4 : 40 + 12 = **16 : 40 hours**
  - g. 9 : 35 a.m. = **09 : 35 hours**
  - h. 6 : 30 a.m. = **06 : 30 hours**

Add 12 to the hours between 1:00 and 11:59 PM and eliminate "PM"

1:00 PM = 13:00	7:00 PM = 19:00
2:00 PM = 14:00	8:00 PM = 20:00
3:00 PM = 15:00	9:00 PM = 21:00
4:00 PM = 16:00	10:00 PM = 22:00
5:00 PM = 17:00	11:00 PM = 23:00
6:00 PM = 18:00	



## EXERCISE 20 – B

2. Change into 12 hr clock time

a.  $16 : 30 \text{ hours} = 16 : 30 - 12 = \mathbf{4 : 30 \text{ p.m.}}$

b.  $23 : 50 \text{ hours} = 23 : 50 - 12 = \mathbf{11 : 50 \text{ p.m.}}$

c.  $10 : 45 \text{ hours} = \mathbf{10 : 45 \text{ a.m.}}$

d.  $18 : 15 \text{ hours} = 18 : 15 - 12 = \mathbf{6 : 15 \text{ p.m.}}$

e.  $12 : 00 \text{ hours} = \mathbf{12 \text{ noon}}$

f.  $00 : 00 \text{ hours} = \mathbf{12 \text{ midnight}}$

g.  $05 : 00 \text{ hours} = \mathbf{5 : 00 \text{ a.m.}}$

h.  $16 : 00 \text{ hours} = 16 : 00 - 12 = \mathbf{4 : 00 \text{ p.m.}}$

Add 12 to the hours between 1:00 and 11:59 PM and eliminate "PM"

1:00 PM = 13:00	7:00 PM = 19:00
2:00 PM = 14:00	8:00 PM = 20:00
3:00 PM = 15:00	9:00 PM = 21:00
4:00 PM = 16:00	10:00 PM = 22:00
5:00 PM = 17:00	11:00 PM = 23:00
6:00 PM = 18:00	





## EXERCISE 20 – B

3. A train reached at New Delhi railway station at 4:45 p.m.. What is the time in a 24 hour clock?

**Solution.**

4:45 p.m. in 24 hours clock =  $4 : 45 + 12 = 16 : 45$  hours.



4. Rahul comes back from school at 14: 30 hours. What is the time in a 12 hour clock?

**Solution.**

14 : 30 hours in 12 hours clock =  $14 : 30 - 12 = 2 : 30$  p.m.





**Complete Exercise 20 B in the copy.**



## **Students are able:**

- **To know about the time and conversion of the units using 24 hour clock.**

**THANKING YOU**  
**ODM EDUCATIONAL**  
**GROUP**