

SESSION : 4
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 10
CHAPTER NAME : TIME
SUBTOPIC : 24 HOUR CLOCK

CHANGING YOUR TOMORROW

TIME

24 HOUR CLOCK

LETS RECAPITULATE

**Look at the clock. What time is it?
Is it 10:00 in the morning? Or, is it
10:00 at night?**



Can you say?????.....No

If I give the hint When you go to bed?

Quickly you can say 10:00 p.m.

TIME

24 HOUR CLOCK

A circus starts at 6 p.m. and ends at 9 p.m. How long do the circus continues?

ANS. The time for starting of the circus is 6 p.m.

The circus ends at 9 p.m.

The duration of the circus = 6 p.m. $\xrightarrow{1 \text{ hr}}$ 7 p.m. $\xrightarrow{1 \text{ hr}}$ 8 p.m.
 $\xrightarrow{1 \text{ hr}}$ 9 p.m.

∴ The circus continues for 3 hours.

TIME

24 HOUR CLOCK

Did you see this clock ever????

Can you say what is our topic today????

YES..... 24 HOUR CLOCK

The main difference is that there is no AM and PM in the 24-hour time format. However, in 12-hour format, there is confusion because 12 hours are repeated twice in a day. 24-Hours Time format is also known as Military Time.



TIME

24 HOUR CLOCK

24-HOUR CLOCK - 4 DIGITS

00 00

HOURS

MINUTES

TIME

24 HOUR CLOCK

24-Hour Clock Conversion Chart

24-Hour Clock	12-Hour Clock
00:00 Hours	12:00 (MIDNIGHT)
01:00 Hours	1:00 A.M.
02:00 Hours	2:00 A.M.
03:00 Hours	3:00 A.M.
04:00 Hours	4:00 A.M.
05:00 Hours	5:00 A.M.
06:00 Hours	6:00 A.M.
07:00 Hours	7:00 A.M.
08:00 Hours	8:00 A.M.
09:00 Hours	9:00 A.M.
10:00 Hours	10:00 A.M.
11:00 Hours	11:00 A.M.

24-Hour Clock	12-Hour Clock
12:00 Hours	12:00 (NOON)
13:00 Hours	1:00 P.M.
14:00 Hours	2:00 P.M.
15:00 Hours	3:00 P.M.
16:00 Hours	4:00 P.M.
17:00 Hours	5:00 P.M.
18:00 Hours	6:00 P.M.
19:00 Hours	7:00 P.M.
20:00 Hours	8:00 P.M.
21:00 Hours	9:00 P.M.
22:00 Hours	10:00 P.M.
23:00 Hours	11:00 P.M.

TIME

24 HOUR CLOCK

KEY WORDS TO REMEMBER

- **A.M. - Ante Meridiem**
- **P.M. - Post Meridiem**
- **O'clock**
- **Quarter Past**
- **Half Past**
- **Quarter to**
- **12 hour clock**
- **24 hour clock**

TIME

24 HOUR CLOCK

POINTS TO REMEMBER

Changing between the 12 and 24 hour clocks

To convert from the 12 hour clock to the 24 hour clock is easy - you just need to add 12 to the hours in the day after midday.

For example:

2 o'clock PM becomes 14:00, as $2 + 12 = 14$.

8 o'clock PM becomes 20:00, as $8 + 12 = 20$.

To convert from the 24 hour clock to a PM time in the 12 hour clock, just subtract 12:

19:00 becomes 7 o'clock PM, as $19 - 12 = 7$.

TIME

24 HOUR CLOCK

**Exercise-10 C Q. No A, B and C
book page - 127,128
in the notebook.**



MATHS

TIME

24 HOUR CLOCK

A. Convert the following time to 24 hour clock time.

1. 8 a.m. 08 : 00

2. 10 a.m. 10 : 00

3. 12 noon 12 : 00

TIME

24 HOUR CLOCK

4. 5 p.m. 5 + 12 = 17 : 00

5. 7 p.m. 7 + 12 = 19 : 00

6. 10 p.m. 10 + 12 = 22 : 00

TIME

24 HOUR CLOCK

B. Convert the following time to 12 hour clock time.

1. 04 : 00 4 a.m.

2. 07 : 00 7 a.m.

3. 11 : 00 11 a.m.

TIME

24 HOUR CLOCK

4. 13 : 00 13 - 12 = 1 p.m.

5. 15 : 00 15 - 12 = 3 p.m.

6. 18 : 00 18 - 12 = 6 p.m.

TIME

24 HOUR CLOCK

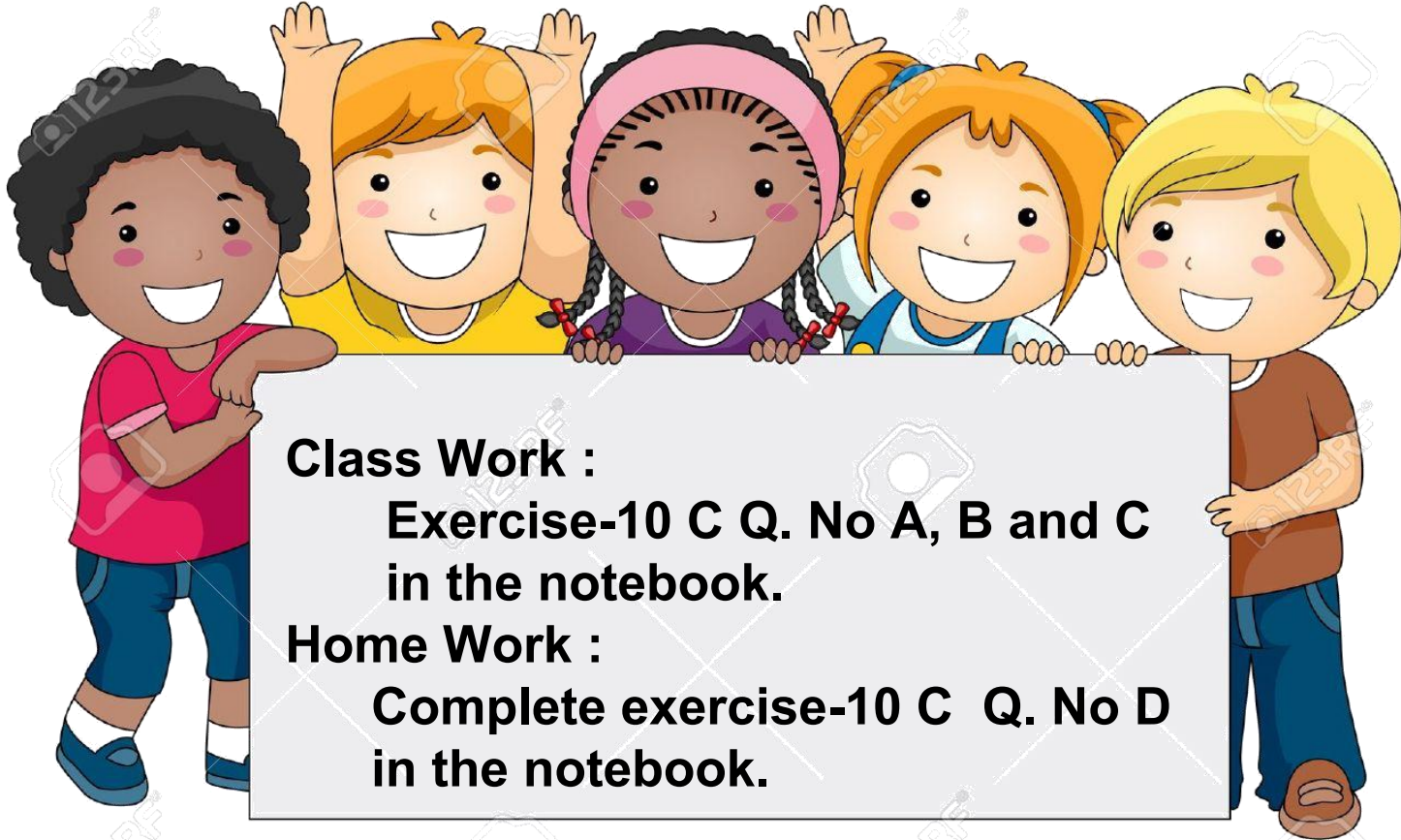
C. A train starts at 11 : 00 o'clock and reaches its destination at 15 : 00 hrs. Write the starting time and reaching time according to the 12 hour clock.

Starting time 11 : 00 11 a.m.

Reaching time 15 : 00 15 - 12 = 3 p.m.

TIME

24 HOUR CLOCK



LEARNING OUTCOME:

Children will be able to read the time correctly to the hour using a clock/watch. Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes. Learn the importance of time and how it applies to everything we do is one of the most fundamental things students can learn in the classroom. Students will learn the value of time by creating clocks and schedules, then reflecting, analyzing, and comparing different activities.

THANKING YOU
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