

MONTH : JANUARY

SESSION : I O

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 20

CHAPTER NAME : TIME

SUB-TOPIC : ADDITION AND SUBTRACTION OF TIME

EXERCISE 20 C NO.4 TO 9

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE :

Enable learners :

- **To add and subtract time units.**

EXERCISE 20 C

4.

a. What is the time 2 hr 25 min before 9:10 p.m. ?

2 hr 25 min before 9:10 p.m. = **6 : 45 p.m.**

$$\begin{array}{r}
 \cancel{8} \quad \quad \cancel{70} \\
 \cancel{9} \quad : \quad \cancel{10} \\
 - \quad 2 \quad : \quad 25 \\
 \hline
 \quad \quad \mathbf{6} \quad \quad \mathbf{45}
 \end{array}$$

b. What is the time 5 hrs after 10:00 p.m.?

5 hrs after 10:00 p.m. = **3 : 00 a.m.**

One day has 24 hours so = 27 hr – 24 hr = **03: 00 hr**

$$\begin{array}{r}
 22 : 00 \\
 + 05 : 00 \\
 \hline
 \mathbf{27 : 00}
 \end{array}$$

c. What time was it 4 hrs 25 min before 4:35 p.m. ?

4 hrs 25 min before 4:35 p.m. = **12 : 10 p.m.**

$$\begin{array}{r}
 16 : 35 \\
 - 4 : 25 \\
 \hline
 \mathbf{12} \quad \quad \mathbf{10}
 \end{array}$$



EXERCISE 20 C

d. What time will it be 5 hrs after 8:30 p.m.?

5 hours after 8:30 p.m. = **1 : 30 a.m.**

One day has 24 hours so,

$$25 : 30 - 24 = 01 : 30 \text{ hour}$$

$$20 : 30$$

$$+ 5$$

$$25 : 30$$

e. What time will it be 2 hours 25 minutes after 6:40 p.m.?

2 hrs 25 minutes after 6 : 40 p.m. = **9 : 05 p.m.**

$$6 : 40$$

$$+ 02 : 25$$

$$9 : 05$$





EXERCISE 20 C

5. Find the time interval between 6 :15 a.m. And 4 :10 p.m.

6 :15 a.m. = 06:15 hour

4 :10 p.m. = 16 :10 hour

$$\begin{array}{r}
 15 \quad 70 \\
 \cancel{16} : \cancel{10} \\
 - \quad 06 : 15 \\
 \hline
 9 \quad 55
 \end{array}$$

The time interval between 6 : 15 a.m. And 4 :10 p.m. = **9 Hours 55 mins**

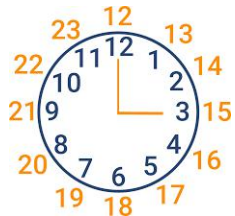
6. Find the time interval from 9:45 a.m. To 2 :30 p.m.

9 :45 a.m. = 09 : 45 hour

2 :30 p.m. = 14 :30 hour

$$\begin{array}{r}
 13 \quad 90 \\
 \cancel{14} : \cancel{30} \\
 - \quad 09 : 45 \\
 \hline
 04 \quad 45
 \end{array}$$

The time interval from 9 : 45 a.m. And 2 :30 p.m. = **4 hours 45 minutes.**



EXERCISE 20 C

7. Simran started her morning walk at 5:50 a.m. She came back at 7 :00 a.m.

a. For how long did she walk?

Time she started walking= 5 :50 a.m.

Time she returned = 7 : 00 am.

Duration of her walk = **1 hour 10 minutes**

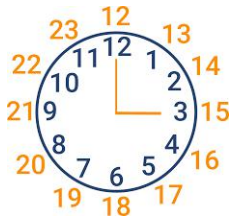
Thus she walked for **1 hour 10 minutes**.



$$\begin{array}{r} 6 \quad 60 \\ - 7 : 00 \\ - 5 : 50 \\ \hline 1 \quad 10 \end{array}$$

b. Write 3 advantages of morning walk.

- i. Improves digestion
- ii. Regulates blood pressure
- iii. Keeps our heart healthy.



EXERCISE 20 C

8. A train leaves Delhi for Kolkata at 6 : 40 a.m. In the morning. It takes 16 hours 50 minutes to reach Kolkata.

a. At what time will the train reach Kolkata? Give the answer in a.m. Or p.m.

The train leaves Delhi at = 6 : 40 a.m.

Time it takes to reach Kolkata = 16 hours 50 minutes

Time it reached Kolkata = 23 : 30 hours =

= 11: 30 p.m.

Thus, the train will reach Kolkata at **11: 30 p.m.**



$$\begin{array}{r}
 11 \\
 06 : 40 \\
 + 16 : 50 \\
 \hline
 23 : 30
 \end{array}$$

ROUGH

$$\begin{array}{r}
 40 + 50 = \\
 90 \text{ min}
 \end{array}$$

$$\begin{array}{r}
 90 \text{ min} - 60 \text{ min} \\
 = 30 \text{ min}
 \end{array}$$



EXERCISE 20 C

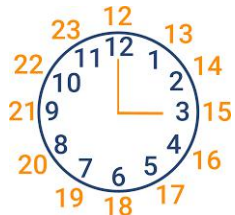
b. Assertion : Some departments like the railways and airlines etc. use 24-hour clock time

Reason :- to avoid the confusion of using a.m. or p.m.

Choose the correct alternative.

- i. Both A and R are true and R is the correct explanation of A.
- ii. Both A and R are true but R is not the correct explanation of A.
- iii. A is false but R is true.





EXERCISE 20 C

9. Sandhya's school starts at 7 : 30 a.m. And ends at 13:00 hours.

a. Find the total working hours of her school.

School starts at = 7 : 30 a.m. = **07 : 30 hour**

School ends at = 13 : 00 hours

The total working hour = **5 hours 30 minutes**

Thus the total working hours of Sandhya's school is **5 hours 30 mins.**

$$\begin{array}{r} 12 \quad 60 \\ \cancel{13} : \cancel{00} \\ - 07 : 30 \\ \hline 05 \quad 30 \end{array}$$

b. Share 2 tips so that Sandhya will never be late for her school.

- i. Sleep early , so you can get up early.
- ii. Make sure to follow the alarm clock.





Students are able:

- **To add and subtract time units.**

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GROUP