

Exercise - 11.2

Page No.:

C. Solve these word problems:-

1. Duration for cartoon show = 45 minutes

Duration for music show = + 30 minutes

Total duration of watching TV = $\overline{75 \text{ mins}}$
= 60 mins + 15 mins

Ans. Amina watched ^{television} for 1 hour 15 mins.

2) Duration of journey from Delhi to Agra
= 4 hours 50 minutes

Due to break down the journey is longer
for = 1 hour 30 minutes.

Total duration of journey

= 4 hours 50 minutes + 1 hour 30 mins

= 6 hours 20 minutes

hours	mins
4	50
+ 1	30
<hr/>	
5	80
	60 20
<hr/>	
6	20

Ans. The duration of the journey is for 6 hours 20 minutes.

③

Duration of tending the garden by Mrs Roy = 1 hour 10 minutes. = (60 + 10) mins = 70 minutes

Duration of tending the garden by Mrs Pathak = 55 minutes.

So Mrs Roy spends more time in tending

$$= 70 \text{ mins} - 55 \text{ mins}$$

$$= 15 \text{ mins}$$

70	
- 55	

15	mins

Ans. Mrs Roy spends 15 mins more time in looking after the garden.

④

Mr Kapoor was in Delhi = 3 years 5 months

He was in Chennai = 1 year 11 months

He was ^{longer} in Delhi for

$$= 3 \text{ years } 5 \text{ months} - 1 \text{ year } 11 \text{ months}$$

$$= 1 \text{ year } 6 \text{ months}$$

3	year	5	month
3	(2)	5 + 12	17
-	1	-----	11
1		06	

Ans. Mr Kapoor was longer in Delhi for 1 year 6 months.

5) Time spent in Mumbai = 3 Years 7 months
 Time spent in Pune = 2 Years 9 months
 Total time spent in both places
 = 3 Years 7 months + 2 Years 9 months
 = 6 Years 4 months

Ans. She spent 6 years
 4 months.

Year	Month
3	7
+ 2	9
5 16	
	\wedge 12
6 years 4 months	

EX-11.3

A. What time will it be

1. 3 hours 30 minutes after 5.30 a.m.
 Given starting time = 5.30 a.m.

Duration = 3 hours 30 minutes.

Required time = 5.30 a.m. + 3 hours 30 mins
 = 9.00 a.m.

Ans. It will be 9.00 a.m. after
 3 hours 30 minutes after
 5.30 a.m.

5.30
+ 3.30
9.00

2. 5 hours 45 minutes after 11.10 a.m.

Given time = 11.10 a.m.

Given duration = 5 hours 45 minutes

Required time = 11.10 a.m. + 5 hours 45 mins
= 4.55 p.m.

Ans. Required time will be 4.55 p.m. after 5 hours 45 mins.	h	min
	11	10
	+ 5	45
	16	55 = 4.55
		- 12.00
	4 55	

3. 2 hours 5 minutes after midnight

Given time = 12 midnight = 0000 hours

Duration = 2 hours 5 minutes

Required time = 12 midnight + 2 hours 5 mins
= 2.05 a.m.

Ans. The required time will be 2.05 a.m. after 2 hours 5 minutes after midnight.		0000 hours
		- 0205 hours
		0205 hours
		= 2.05 a.m.

B. What time will it be?

1 5 hours before 7.15 a.m.

Given time = 7.15 a.m.

Given duration = 5 hours.

Required time = 7.15 a.m. - 5 hours
= 2.15 a.m.

Ans. Required time 5 hours
before 7.15 a.m. will be
2.15 a.m.

$$\begin{array}{r} 7.15 \\ - 5.00 \\ \hline 2.15 \end{array}$$

2. 12 hours before 6.30 p.m.

Given time = 6.30 p.m. = 1830 hours

Given duration = 12 hours = 1200 hours

Required time = 6.30 p.m. - 1200 hours
= 6.30 a.m.

Ans. Required time 12 hours
before 6.30 p.m. will be
6.30 a.m.

$$\begin{array}{r} 1830 \text{ hours} \\ - 1200 \text{ hours} \\ \hline 0630 \text{ hours} \\ = 6.30 \text{ a.m.} \end{array}$$

① similarly do all.

C. Solve these word problems: -

- (1) Starting time of the school = 7.50 a.m.
 Duration of the school = 5 hours
 Finishing time = 7.50 a.m + 5 hours
 = 12.50 p.m.

Ans. The school gets over
 at 12.50 p.m.

$$\begin{array}{r} 7.50 \\ + 5.00 \\ \hline 12.50 \end{array}$$

- (2) Starting time of the tourist bus
 = 7.00 p.m.
 = 1900 hours

Duration of journey = 5 hours 45 mins
 = 0545 hours

Required time = 1900 hours + 0545 hours
 = 2445 hours

= 12.45 a.m.

$$\begin{array}{r} 1900 \\ + 0545 \\ \hline 2445 \\ - 1200 \\ \hline 1245 \end{array}$$

Ans. The bus will reach at
 12.45 a.m.

- (3) Ending time of the picnic got over = 5.00 p.m.
 = 1700 hours

Duration of the picnic = 6 hours 30 mins
 = 0630 hours.

$$\begin{aligned}
 \text{Required Time} &= 1700 \text{ hours} - 6 \text{ hours } 30 \text{ minutes} \\
 &= 1700 \text{ hours} - 0630 \text{ hours} \\
 &= 10:30 \text{ a.m.}
 \end{aligned}$$

Ans. The picnic began at 10:30 a.m.

$$\begin{array}{r}
 1700 \text{ hours} \\
 - 0630 \text{ hours} \\
 \hline
 1030 \text{ hours}
 \end{array}$$

(4) Finishing time of celebration of independence day = 10:15 a.m.

Duration of independence day celebration = 1 hour 30 minutes

Starting time of celebration

$$= 10:15 \text{ a.m.} + 1 \text{ hour } 30 \text{ minutes}$$

$$= 11:45 \text{ a.m.}$$

$$\begin{array}{r}
 10:15 \\
 + 1:30 \\
 \hline
 11:45
 \end{array}$$

Ans. The independence day

~~celebration~~ began at 11:45 a.m.