

Exercise - 11.2

C How many minutes have passed from

(1) 1:15 to 2:00 → 45 minutes.

(2) 3:45 to 4:30 → 45 minutes.

(3) 7:25 to 8:00 → 35 minutes.

(4) 6:03 to 6:37 → 34 minutes.

(5) 8:05 to 8:47 → 42 minutes.

(6) 5:28 to 6:00 → 32 minutes.

D. How many hours have passed between

1. 3:00 a.m. and 6:00 a.m.

Starting time = 3:00 a.m.

Finishing time = 6:00 a.m.

Required hours = 3:00 a.m. → 6:00 a.m. | 6-3
3 hours | = 3

Ans. 3 hours have passed between 3:00 a.m. and 6:00 a.m.

② 7.00 a.m and 12 noon
Starting time = 7.00 a.m

Finishing time = 12 noon

Required hours = 7.00 a.m $\xrightarrow{12 \text{ noon}}$ $\left. \begin{array}{l} 12-7 \\ = 5 \end{array} \right\}$
5 hours.

Ans. 5 hours have passed between 7.00 a.m and 12 noon.

③ 11.00 a.m. and 2.00 p.m.
Starting time = 11.00 a.m.
Finishing time = 2.00 p.m.

Required hours = 11.00 a.m \rightarrow 12 noon \rightarrow 2 p.m.
1 hour 2 hours.
= 1 hour + 2 hours
= 3 hours.

Ans. 3 hours have passed between 11.00 a.m and 2 p.m.

④ 4.00 p.m and 12.00 mid night
Starting time = 4.00 p.m
Finishing time = 12.00 mid night

Required hours = 4.00 p.m $\xrightarrow{12.00 \text{ mid night}}$
8 hours

Ans. 8 hours have passed between 4.00 p.m. and 12 mid night

5. 4.00 p.m and 4.00 a.m

Starting time = 4.00 p.m

Finishing time = 4.00 a.m

Required hours = 4.00 p.m to 12 midnight + 12 midnight to 4.00 a.m

= 8 hours + 4 hours

= 12 hours

Ans. 12 hours have passed in between 4 p.m and 4 a.m.

6) 11 p.m. and 2.00 a.m

Starting time = 11 p.m.

Finishing time = 2.00 a.m.

Required hours = 11 p.m. $\xrightarrow{1 \text{ hour}}$ 12 midnight $\xrightarrow{2 \text{ hours}}$ 2 a.m.

= 1 hour + 2 hours

= 3 hours.

Ans. 3 hours have been passed in between 11 p.m. and 2 a.m.

2. Solve

1. Starting time of the school = 8:20 a.m.

Reaching time of Ritu at school = 8:05 a.m.

Required minutes that she reaches early

$$= 8:20 \text{ a.m.} - 8:05 \text{ a.m.}$$

$$= 15 \text{ minutes}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline 15 \end{array}$$

Ans. Ritu reaches her school
15 minutes early.

2. Starting time of cartoon show = 7:05 p.m.

Chinu switch on the television = 7:20 p.m.

Required minutes he missed = 7:20 p.m. - 7:05 p.m.

$$= 15 \text{ minutes}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline 15 \end{array}$$

Ans. Chinu missed the cartoon show for
15 minutes.

3. Starting time of T-20 match = 10:30 a.m.

Finishing time of the match = 2:15 p.m.

$$10:30 \text{ a.m.} \xrightarrow{1 \text{ h } 30 \text{ mins}} 12 \text{ noon} \xrightarrow{2 \text{ h } 15 \text{ mins}} 2:15 \text{ p.m.}$$

Duration of match = 1 h 30 mins + 2 h 15 mins

$$= 3 \text{ hours } 45 \text{ minutes.}$$

Ans. The T-20 match last for 3 hours 45 minutes.

4. Starting time of movie = 10.45 a.m.
Finishing time of movie = 1.05 p.m.

10.45 a.m. $\xrightarrow{1\text{h } 15\text{ mins}}$ 12 noon $\xrightarrow{1\text{h } 05\text{ min}}$ 1.05 p.m.

Duration of the movie = 1 hour 15 mins + 1 hour 5 mins
= 2 hours 20 mins

Ans. The movie was 2 hours 20 minutes long.

- 5) Departure time of flight from Delhi = 7.10 P.m.
Arrival time of flight at Bangalore = 9.00 P.m.

Required duration = 7.10 P.m. $\xrightarrow{50\text{ min}}$ 8 P.m. $\xrightarrow{1\text{ hour}}$ 9.00 P.m.
= 1 hour + 50 minutes
= 1 hour 50 minutes.

Ans. The flight took 1 hour 50 minutes to reach Bangalore.

6. Starting time of homework = 7.05 P.m.
Finishing time of homework = 8.10 P.m.

Required duration = 7.05 P.m. $\xrightarrow{55\text{ min}}$ 8.00 P.m. $\xrightarrow{10\text{ min}}$ 8.05 P.m.
= 55 minutes + 10 minutes
= 65 minutes = (60 + 5) mins
= 1 hour 5 minutes.

Ans. Lipika took 1 hour 5 minutes to do the homework.