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Railway time

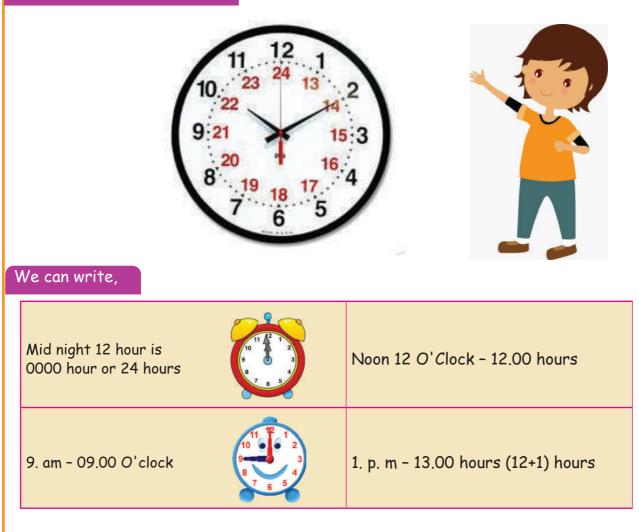
We are using 12 hours clock generally. We use railway time in railway station, Defence department, television and internet. We cannot see or hear the a.m. p.m. in any train time table or announcement because the railway time represents time in 24 hours.



Generally railway times are written in 4 digits. The first two digits show the hour and the last two digits show the minutes.

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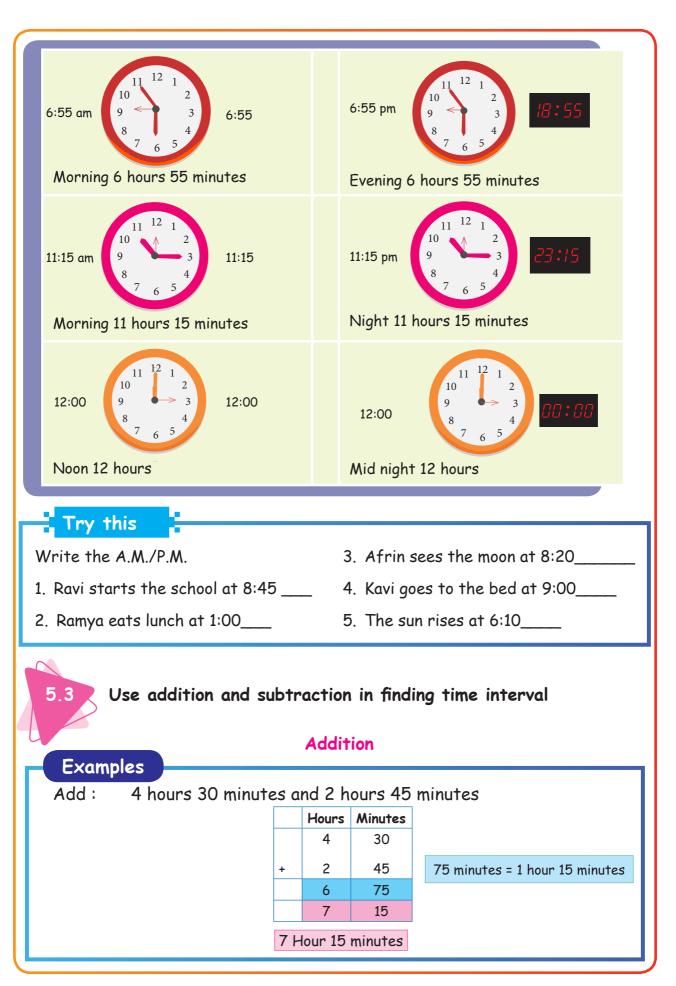
24-Hours Clock



While converting the 12 hour time to 24 hour time during pm we should add 12 to hours and keep the minutes same.



12 hours Clock	24 hours Clock	12 hours Clock	24 hours Clock
12 Mid night	0000 hours or 2400 hrs	12:01 p.m.	12:01 Hours
0:20 a.m.	00:20 Hours	12:59 p.m.	12:59 Hours
0:49 a.m.	00:49 Hours	1:00 p.m.	13:00 Hours
1:00 a.m.	01:00 Hours	4:00 p.m.	16:00 Hours
4:00 a.m.	04:00 Hours	5:20 p.m.	17:20 Hours
5:30 a.m.	05:30 Hours	9:45 p.m.	21:45 Hours
11:15 a.m.	11:15 Hours	11:30 p.m.	23:30 Hours
12:00 Noon	12:00 Hours	12 Mid night	00:00 hrs or 24:00 hrs
6. 01.55 p.i	m.		Hours
4 hour Clock 12			
2:20 am 9 8 7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2:20 pm 9 6 8 7 6	2 1 2 3 3 4 5
	ours 20 minutes	After noon 2 hour	





Examples

Krishna goes to his village. He travels 4 hours 35 minutes in bus and 1 hour 55 minutes in Two-Wheeler. What is the total time of his travel?

		Hours	Minutes	
Travel in bus	=	4	35	
Travel in Two-Wheeler	=	+ 1	55	90 minutes = 60+30 minutes
		5	90	60 minutes = 1 hour
Total time	=	6	30	30 minutes = 30 minutes \therefore 5+1 = 6 hour 30 minutes

:. Krishna has travelled for 6 hour 30 minutes

Subtraction

Examples

Subtract :

ct : 3 hours 45 minutes from 5 hours 30 minutes

			_				
	Hours	Minutes			Hours	Minutes	We can't Subtract 45 minutes from 30 minutes
	5	30			4	60+30	so regroup 1hour from
-	3	45			b	30 90	5 hours as (60 + 30) 90 minutes and subtract 45
			-	-	3	45	minutes from 90 minutes. We can get 45 minutes.
		<u> </u>			1	45	we can get to minutes.
				1	-lour 45	minutes	When we subtract 3 hours from 4 hours balance is 1 hour.

Examples

Ram works on his Computer from morning 10' O Clock to Evening 3.30. How long does he work in his computer?

		Hours	Minutes	
Ram works on his Computer at Evening	=	3	30	
He starts works at Morning	=	10	00	

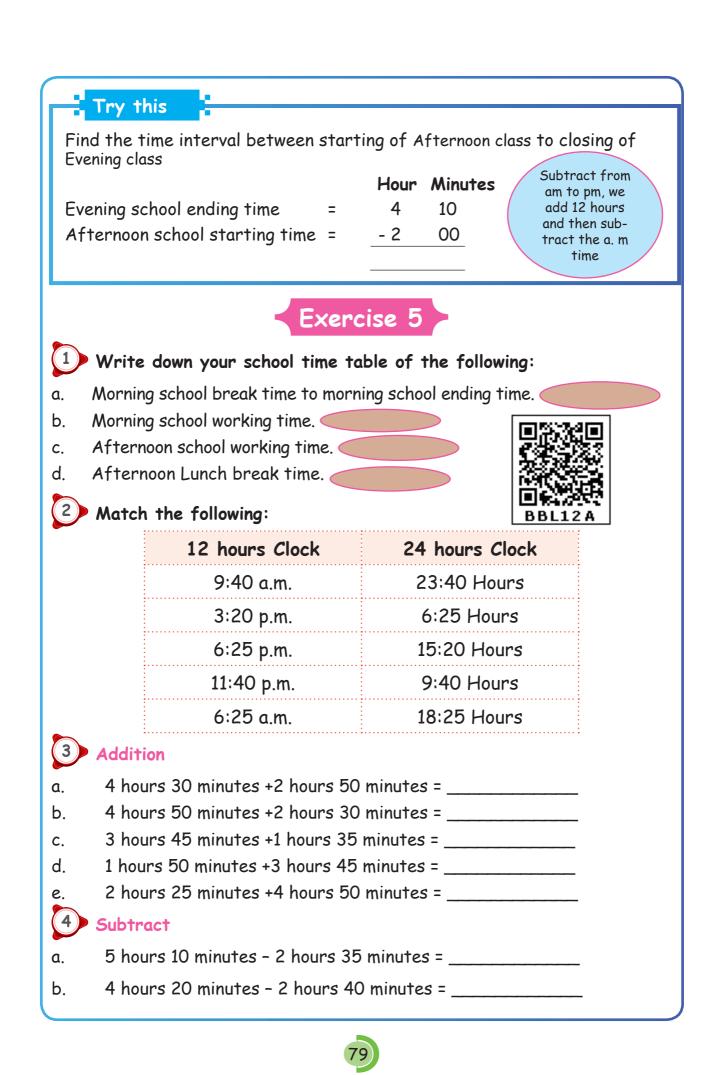
		Hours	Minutes	
		15	30	
-	-	10	00	Subtract from a.m. to p.m., we add 12 hours.
		5	30	Add 3.30 hours + 12 hours we can get 15:30

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... Ram works 5 hours 30 minutes in his computer



	SCHOOL	TIME TABLE	
First bell	9:00 a.m.	Lunch time	12:40 p.m. to 2:00 p.m.
Norning prayer	9:15 a.m.	Afternoon school	2:00 p.m.
Class starting time	9:30 a.m.	starting time	
Norning break time	11:00 a.m. to 11:10 a.m.	Afternoon break t	3:30 p.m.
Aorning school losing time	12:40 p.m.	Evening school clos time	ing 4:10 p.m.
		<u>2</u> 00 d morning break time is t ime of class startin	
		d morning break time is time of class startin r Minutes (60 + 10)	ng and the time of We can't subtract 30 minutes from 10 minutes so we convert to hour
2. Find the time inter morning break.	rval between the Hou 10 time = 11	d morning break time is time of class startin mr Minutes (60 + 10) 10	ng and the time of We can't subtract 30 minutes from 10 minutes
 Find the time intermorning break. Morning break ending time 	rval between the Hou 10 time = 11 = - <u>9</u> <u>1</u>	d morning break time is time of class startin mr Minutes (60 + 10) 10 30 40	We can't subtract 30 minutes from 10 minutes so we convert to hour into minutes 1 hours to 60
2. Find the time inter morning break. Morning break ending	rval between the Hou 10 time = 11 = - <u>9</u> 1_ ween class startin	d morning break time is time of class startin (60 + 10) 10 30 40 g time and morn-	We can't subtract 30 minutes from 10 minutes so we convert to hour into minutes 1 hours to 60 minutes and add. 60+10 = 70 now we sub- tract 30 minutes from
 Find the time intermorning break. Morning break ending time Class starting time The time interval betwing break ending time 	rval between the Hou 10 time = 11 = -9 <u>1</u> ween class startin is 1 hour 40 minu	d morning break time is time of class startin (60 + 10) 10 30 40 g time and morn- tes.	Ng and the time of We can't subtract 30 minutes from 10 minutes so we convert to hour into minutes 1 hours to 60 minutes and add. 60+10 = 70 now we sub- tract 30 minutes from 40 we can get 1 hour 40 minutes.
 Find the time intermorning break. Morning break ending time Class starting time The time interval betwing break ending time Find the total time f 	rval between the Hou 10 time = 11 = -9 1 ween class startin is 1 hour 40 minu From starting of m	d morning break time is time of class startin (60 + 10) 10 30 40 g time and morn- tes. orning class to closing of Hour	ng and the time of We can't subtract 30 minutes from 10 minutes so we convert to hour into minutes 1 hours to 60 minutes and add. 60+10 = 70 now we sub- tract 30 minutes from 40 we can get 1 hour 40 minutes. f Afternoon class? Minutes
 Find the time intermorning break. Morning break ending Class starting time The time interval betwing break ending time Find the total time f Afternoon sch 	rval between the Hou 10 time = 11 = -9 <u>1</u> ween class startin is 1 hour 40 minu	d morning break time is time of class startin (60 + 10) 10 30 40 g time and morn- tes.	Ng and the time of We can't subtract 30 minutes from 10 minutes so we convert to hour into minutes 1 hours to 60 minutes and add. 60+10 = 70 now we sub- tract 30 minutes from 40 we can get 1 hour 40 minutes.



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	Sarkar Express Kakkinoda Rameswaram Express train Rameswaram Ananthapuri Express Kollam Sozhan Express Train	time Chennai 17:20 19:15 06:50 08:00	time 09:50 08.35 08.20 16.00	Travelling time				
	Sarkar Express Kakkinoda Rameswaram Express train	time Chennai 17:20	time 09:50					
	Sarkar Express Kakkinoda	time Chennai 17:20	time 09:50					
		time Chennai	time					
۱	Train Name	Starting	Reaching					
1	Write the time of travel							
) 	[24 hours Clock]			LE LE				
.г	hours 50 minutes in even	ing. What is the	e total time k	ne painted?				
	A painter paints a house	for 3 hours 15	minutes in mo	orning and 2				
	A man comes to his village in Tamilnadu from Ahmedabad. He travels 2 hours 15 minutes in Aeroplane and 4 hours 40 minutes in Car. What is the total time of travel?							
	A bank works from morni working time of the bank	A bank works from morning 9:30 a.m. to 4:30 p.m. What is the working time of the bank?						
	A circus starts at 12:15 pm and ends by 2:30 pm. What is the duration of circus?							
	A school works from morning 9 O'Clock to evening 4 O' Clock. What is the duration of working hours of the school?							
	An office works from 10 a.m to 6 a.m What is the duration of working hours?							
	• Answer the following:							
	5 hours 45 minutes - 3 ho	ours 55 minutes	5 =					
	6 hours 55 minutes – 2 h	ours 20 minutes	s =					
	4 hours 25 minutes – 1 ho	ours 20 minutes	; =					