

Equipment

Paper, pencil

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<u>4570</u>	Using the 24-hour clock to r	ead time and timetables
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<u>Concepts</u>

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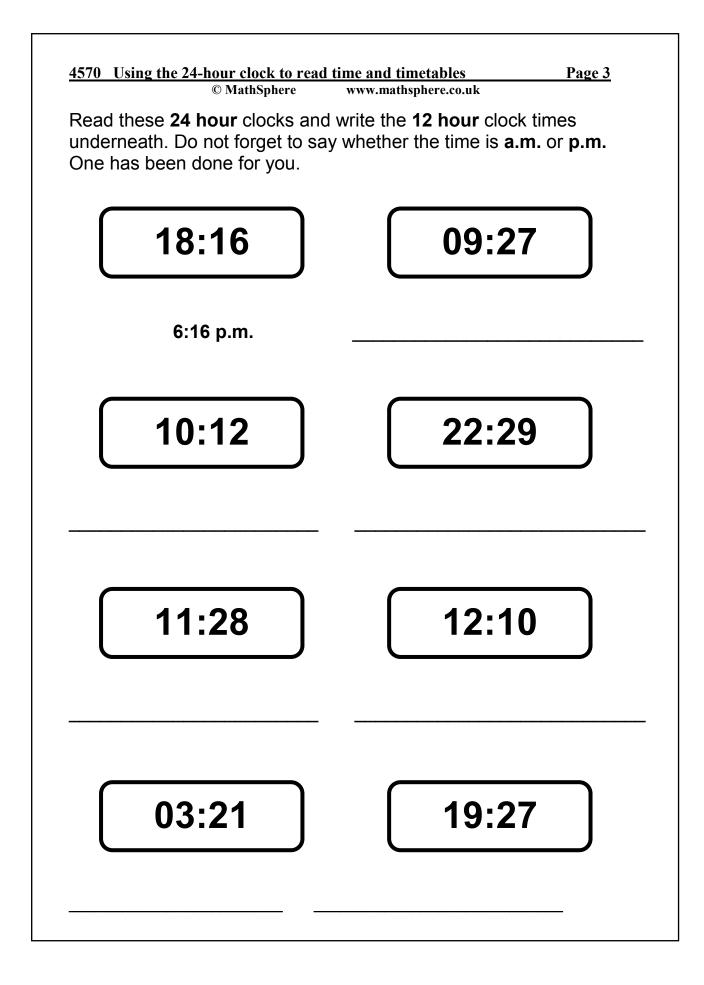
Children should be able to read an analogue clock (the type with the older clock face) to the nearest minute and read a digital clock.

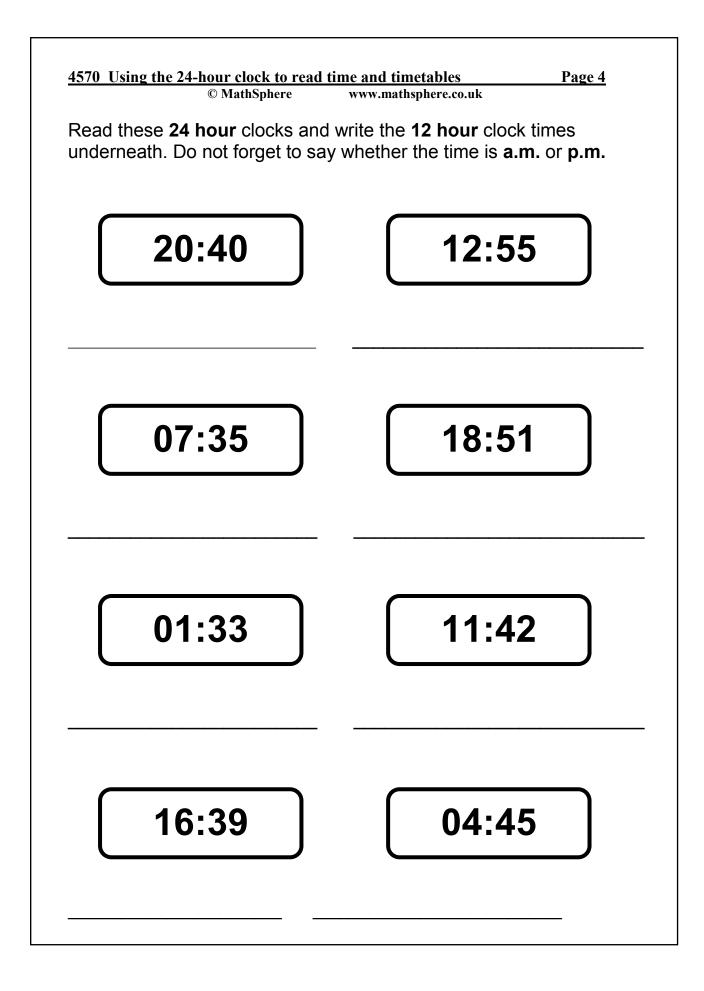
They should understand the relationship between a 12 hour clock and a 24 hour clock.

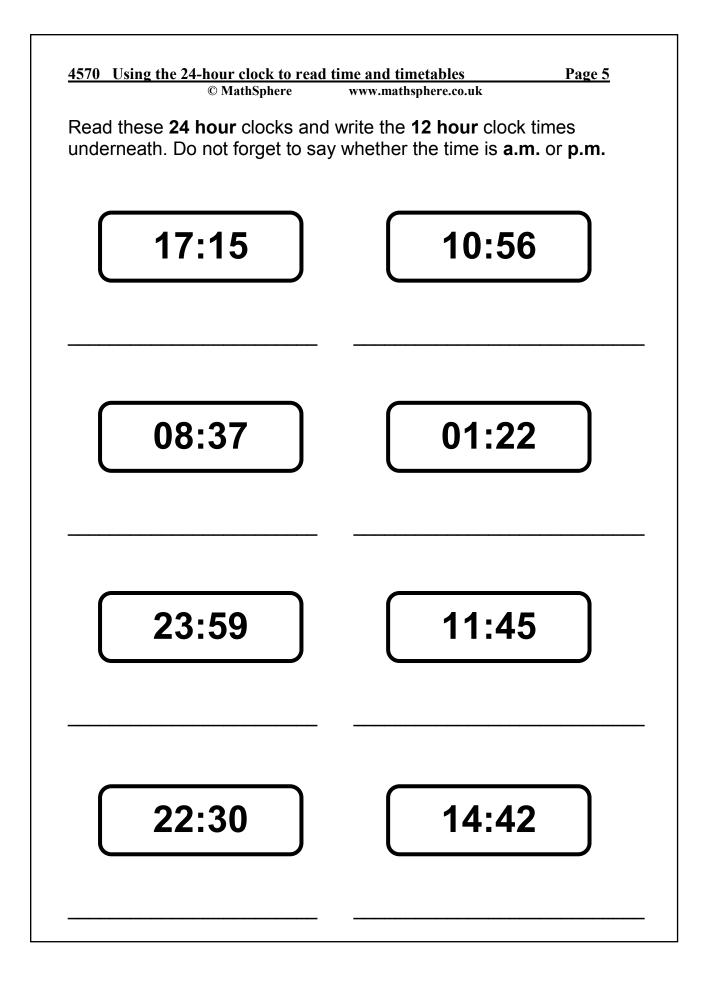
Children should understand and be able to use **a.m.** and **p.m.** and convert these times to 24 hour clock times and back again.

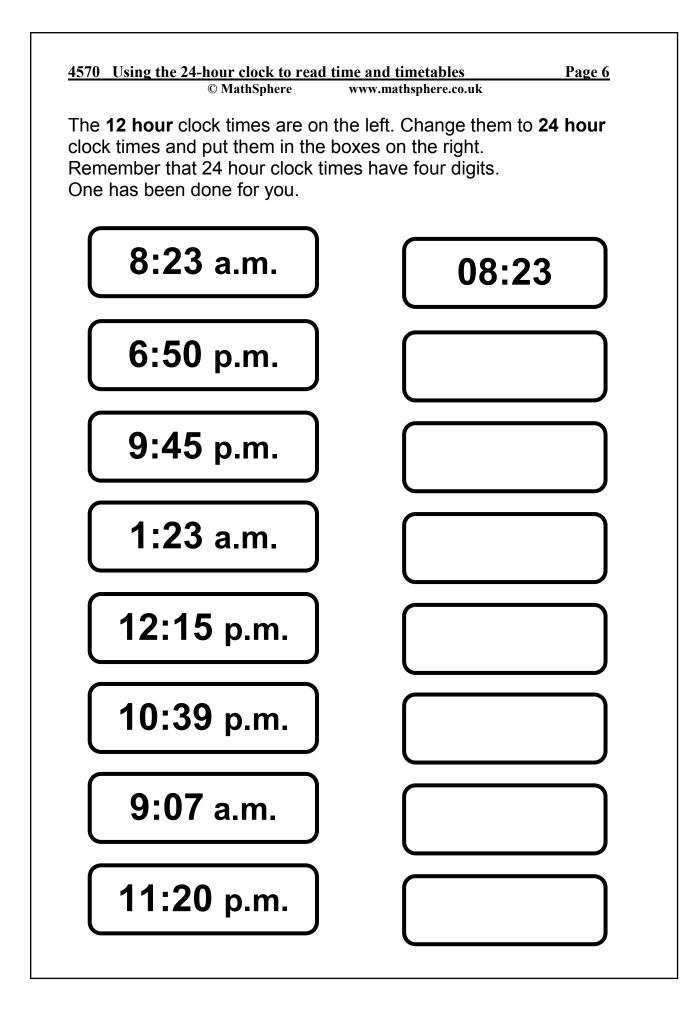
They should know that 24 hour clock times are sometimes written without punctuation (1342), sometimes with punctuation - normally a colon (13:43) and sometimes with an 'h' at the end (1342 h).

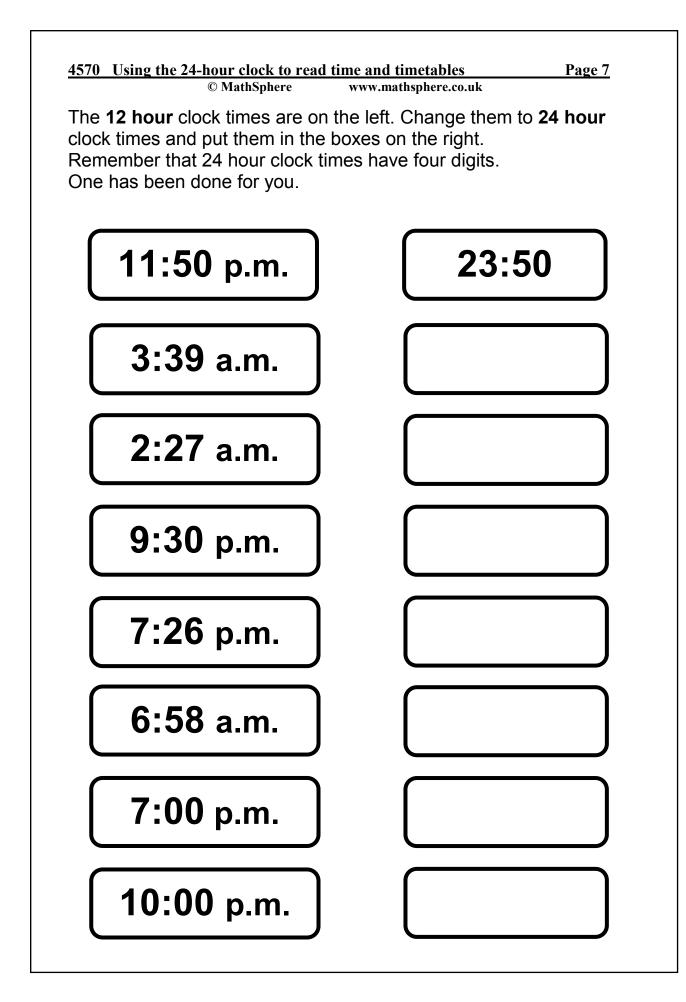
They should be able to interpret more complicated timetables and solve quite complex problems using timetables.

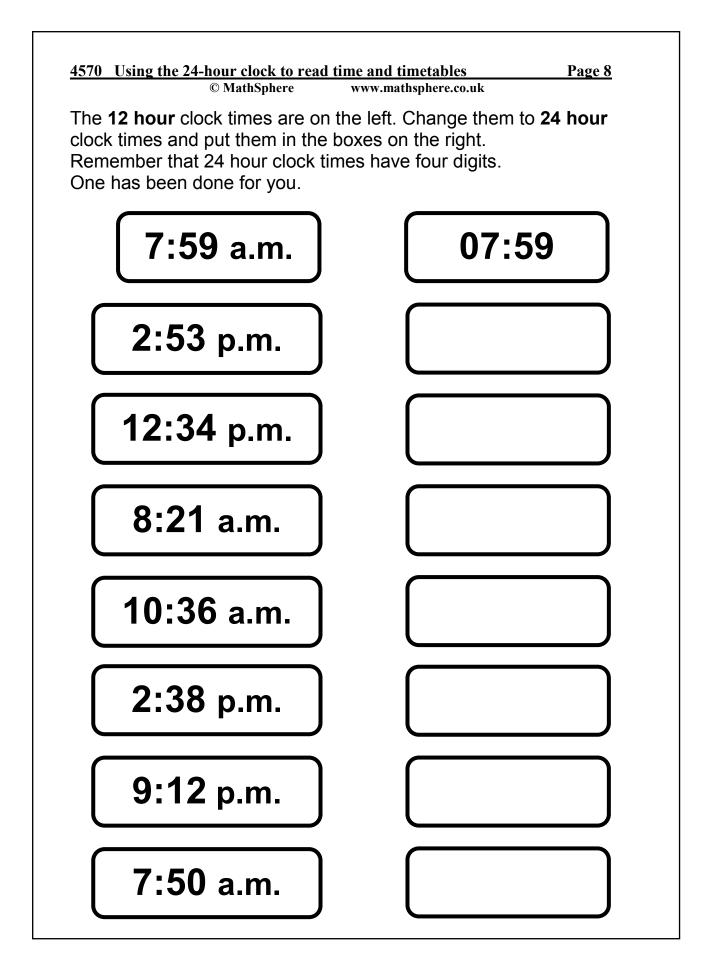












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Fill in the gaps in this table:

Time in words	12 Hour time	24 Hour time
Four o'clock in the afternoon	4:00 p.m.	16:00
Midnight	12:00 a.m.	
Five past four in the afternoon		
	3:00 p.m.	
		12:00
Thirty minutes past midnight		
Twenty minutes past noon		
	2.37 p.m.	
Twenty to four in the afternoon		
Half past three in the morning		
One minute to midnight		
		00:02
		23.54
A quarter to five in the afternoon		

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Fill in the gaps in this table for the things you do. Add three of your own in the spaces.

12 Hour time	24 Hour time

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Look carefully at and answer the c		ole	
			M

Bus stop			Times		
Frederick Street	0834	0929	1015	1109	1200
Chorley House	0854	0947	1037	1130	1222
Library	0912		1052		1242
West Dean School	0916	1000	1056		1247
Theatre	0922	1005	1102	1146	1253
Town Centre	0929	1012	1111	1154	1301

- 1. What do the dots in the timetable mean?
- 2. How long does the first bus take to get from Frederick Street to the Town Centre?
- 3. At what time does the **09:47** bus from **Chorley House** arrive at the **theatre**?
- **4.** Peter needs to arrive at the **theatre** by **twelve o'clock a.m**. Which bus must he catch from **Frederick Street**?
- 5. Which bus takes the least time for the complete journey from Frederick Street to the town centre?
- 6. Mary has to get an earlier bus to West Dean School before she can get the bus into town. She arrives at West Dean School at 11:40 a.m. How long does she have to wait for a bus into town?

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I expect these by	you are getting now!	quite good at	
			L.

Island Times Mainland Port Lagoon Island **Pineapple Island** Whale Island Shipwreck Island **Dolphin Island** Mainland Port

- 1. What is the time between most of the boats leaving the **mainland port**? Which boat is different?
- 2. Each boat takes the same time for the complete trip. How long do they take?
- **3.** If I were on **Whale Island** and I decided at 1.30 p.m. to go back to **port**, what is the time of the earliest boat I can catch?
- 4. Sam is on Shipwreck Island and needs to meet her friend on Dolphin Island at half past one in the afternoon. Which boat should she get?
- **5.** John does not want to get off the boat at each island, but he gets sea sick after about an hour. Explain why he likely to be sick.
- 6. If you get the first boat from the **port** and come back on the last, how long could you spend away from the **port**?

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Answers				
Page 3		Page 8		
6:16 p.m. 9):27 a.m.	07:59		
10:12 a.m. 10):29 p.m.	14:53		
11:28 a.m. 12	2:10 p.m.	12:34		
3:21 a.m. 7	7:27 p.m.	08:21		
Page 4		10:36		
8:40 p.m. 1	2:55 p.m.	14:38		
	6:51 p.m.	21:12		
1:33 a.m. 1	1:42 a.m.	07:50		
4:39 p.m.	4:45 a.m.			
		Page 9		
		For answers to this page see next		
		answer page.		
Page 5		Page 11		
5:15 p.m. 1	0:56 a.m.	1. The bus does not stop at these stops.		
8:37 a.m.	1:22 a.m.	2. 55 minutes		
11:59 p.m. 1	1:45 a.m.	3. 10:05		
10:30 p.m.		4. 11:09 or earlier		
-	-	5. 0929 (43 mins)		
		6. 1 hr 7 mins		
Page 6		Page 12		
08:23		1. 1 hr 10 mins 1400 boat is different		
18:50		2. 1 hr 30 mins		
21:45		3. 14:50		
01:23		4. 12:50		
12:15		5. The trip is much longer than 1 hour		
22:39		6. 8 hrs 30 mins		
09:07				
23:20				
Page 7				
23:50				
03:39				
02:27				
21:30				
19:26				
06:58				
19:00				
22:00				

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<u>Answers</u>

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Time in words	12 Hour time	24 Hour time
Four o'clock in the afternoon	4:00 p.m.	16:00
Midnight	12:00 a.m.	00:00
Five past four in the afternoon	4:05 p.m.	16:05
Three o'clock in the afternoon	3:00 p.m.	15:00
Noon	12:00 a.m.	12:00
Thirty minutes past midnight	12:30 a.m.	00:30
Twenty minutes past noon	12:20 p.m.	12:20
Thirty seven minutes past 2 in the afternoon	2.37 p.m.	14:37
Twenty to four in the afternoon	3:40 p.m.	15:40
Half past three in the morning	3:30 a.m.	03:30
One minute to midnight	11:59 p.m.	23:59
Two minutes past midnight	12:02 a.m.	00:02
Six minutes to midnight	11:54 p.m.	23.54
A quarter to five in the afternoon	4:45 p.m.	16:45