



E-book Code:
REAU0061



For Ages 11 - 13

The Time Book 3

Activities related to telling
the time.

Written by Lyn Catchpole. Illustrated by Rod Jefferson.

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Revised by Ready-Ed Publications (2006) P.O. Box 276 Greenwood WA 6024

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ISBN 1 86397 096 7

Introduction

The learning of concepts related to TIME is an important stage in the mathematical development of young children.

This book allows 11 to 13 year old students to be introduced to, or reminded about, these concepts. It adopts a structured and systematic approach which allows plenty of consolidation of the skills being covered.

Through exposure to these pages children will develop their skills in areas such as:

- ☐ Time to the nearest minute.
- ☐ Digital time.
- ☐ Stopwatch activities.
- ☐ Passing of time.
- ☐ The 24 hour clock.
- ☐ Calendar work.
- ☐ Using timetables.
- ☐ Time zones and world times.
- ☐ Research on time.
- ☐ The technology of time.

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Time To Nearest Minute - Information page

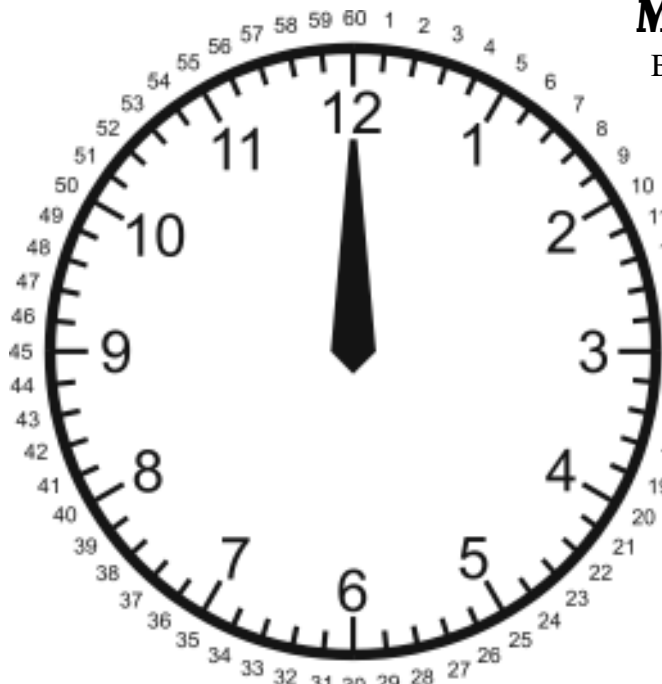
Minute Hand

Between each number on the clock face there are five minutes. The minute hand shows each of these minutes as it moves past each number.

E.g. 1 represents five minutes past;
4 represents twenty minutes past.

The minutes between the numbers are also read.

E.g. the clock below shows 12:17.
17 means seventeen minutes past the hour. The hour hand is read by the actual number it is pointing to or has last passed.



Sample

Examples

The hour hand is between the one and the two and has passed one.
The minute hand is pointing to the minutes between the six and seven.
Remember: the 6 represents thirty minutes ($6 \times 5 = 30$)
and 7 represents thirty-five minutes ($7 \times 5 = 35$).

The minute hand is two minutes past thirty minutes,
i.e. thirty-two minutes past.
Therefore the correct time on the clock is 1:32.



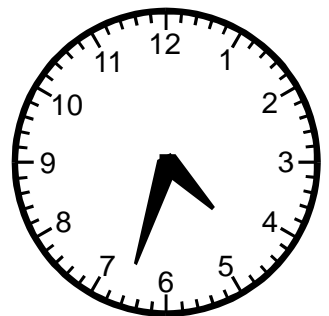
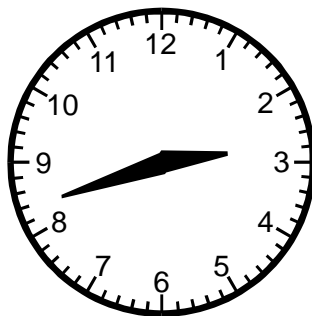
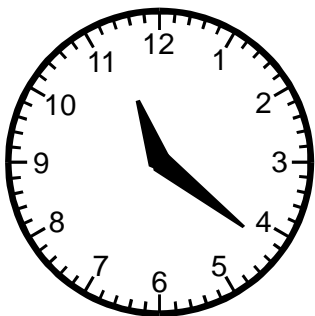
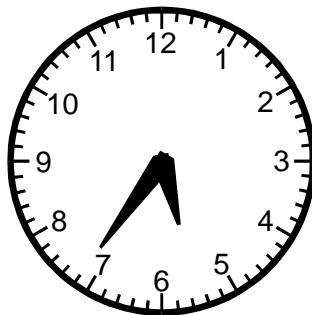
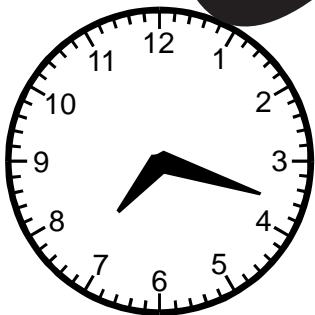
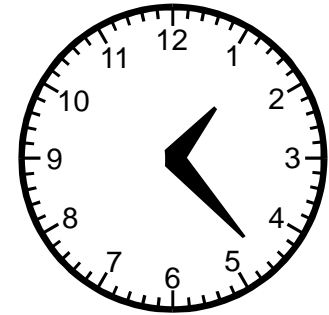
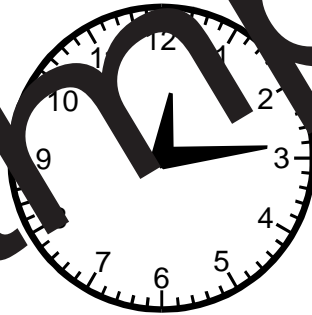
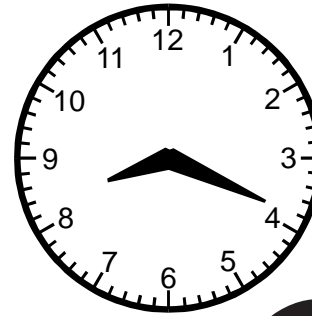
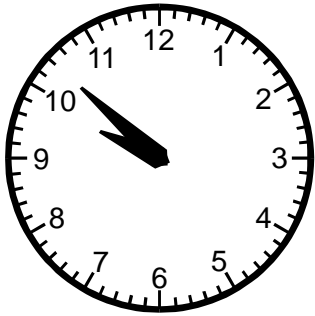
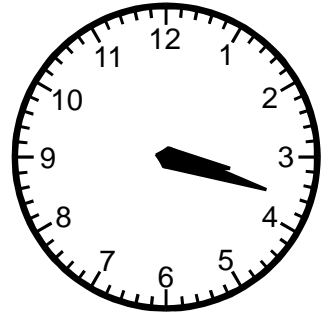
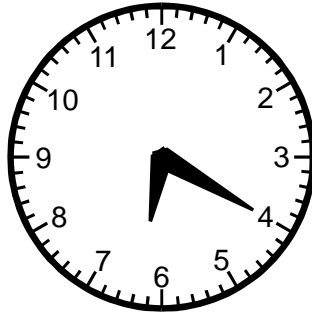
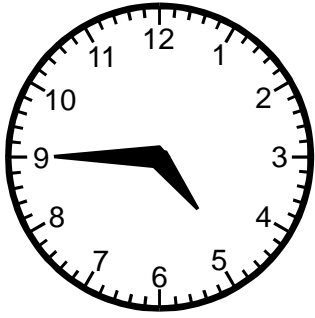
The hour hand is between seven and eight and has passed seven.
The minute hand is between fifty minutes and fifty-five minutes.
It is pointing to fifty-four minutes. Therefore the time on the clock is 7:54.



Name:

Time To Nearest Minute - 1

What time are these clocks showing?

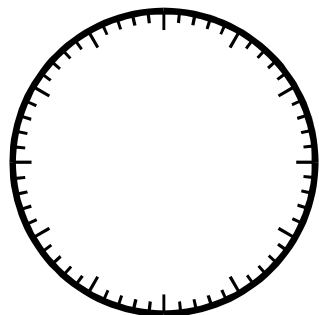
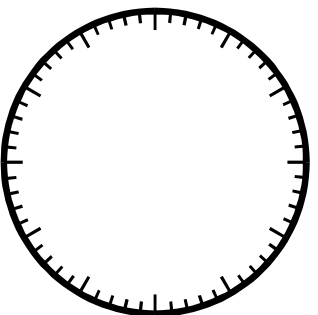
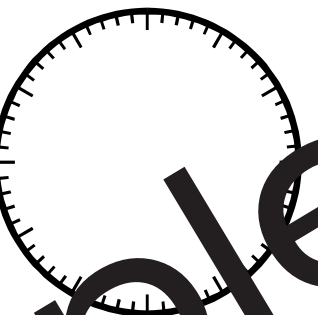
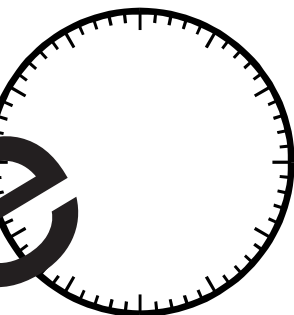
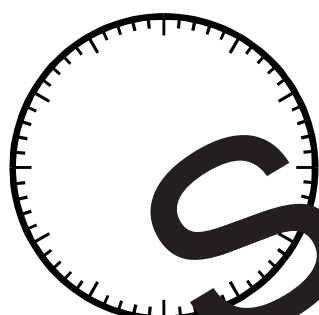

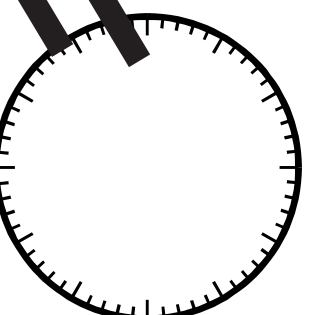
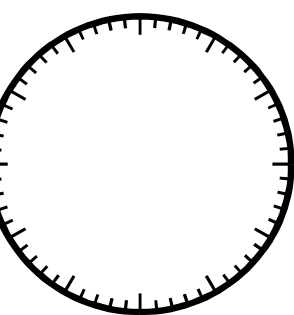


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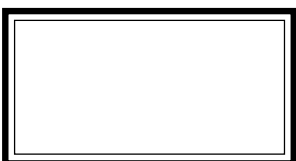
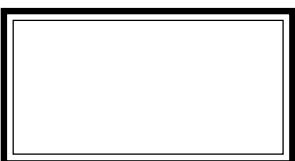
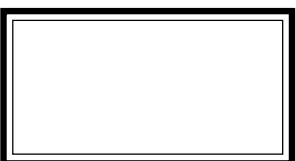
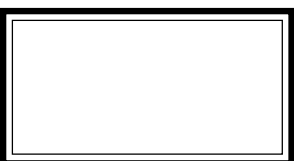
Digital Time

☐ Show these digital times on the clockfaces below.

6:55	3:20	11:54	9:15
10:28	12:44	1:09	4:22

 8:25	 5:18	 7:42	 10:45
 12:06	 2:35	 11:19	 6:11

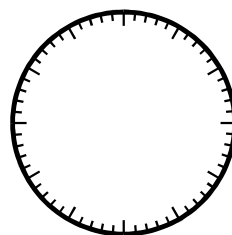
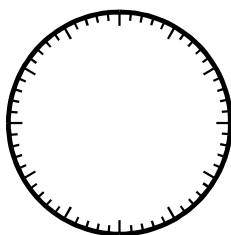
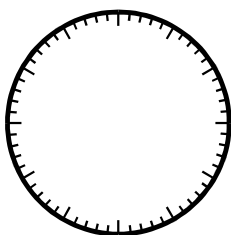
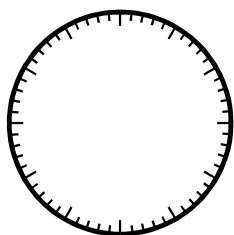
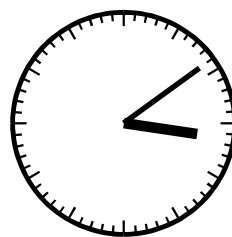
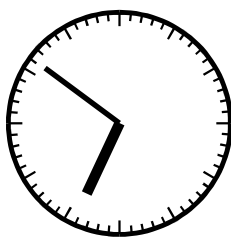
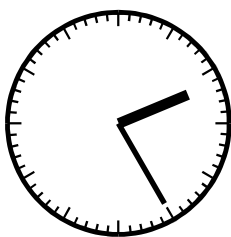
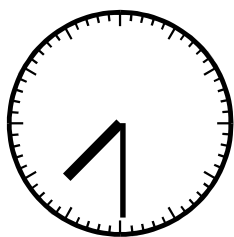
☐ Use the digital clocks to show the times you might be ...

 Eating breakfast	 Going to school	 Doing maths	 Having lunch
 Going home from school	 Having dinner	 Watching TV	 Going to bed

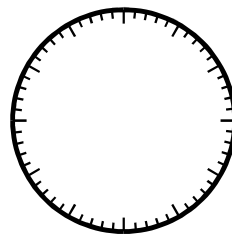
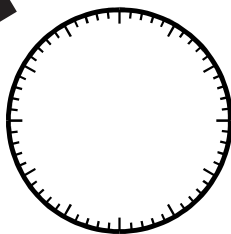
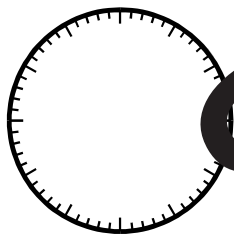
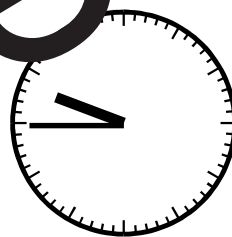
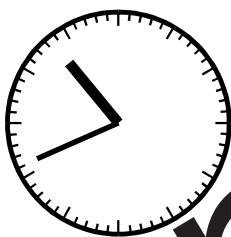
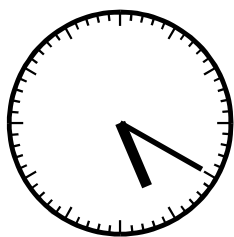
Name:

Changing Times - 3

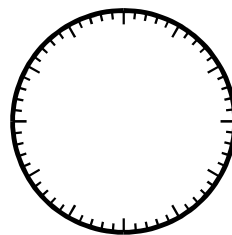
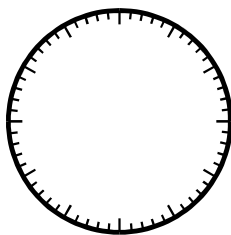
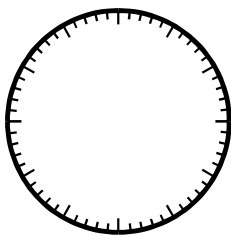
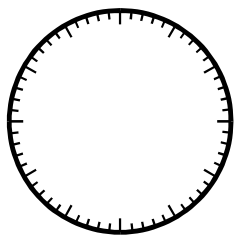
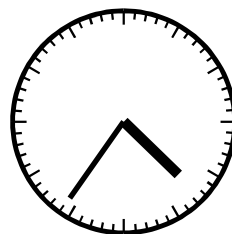
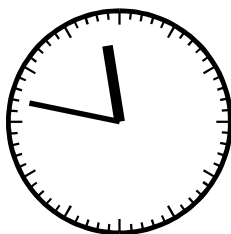
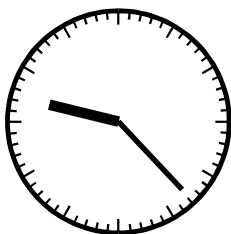
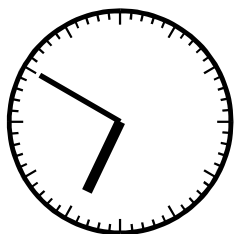
☐ Make these clocks half an hour later.



☐ Make these clocks half an hour earlier.



☐ Make these clocks fifteen minutes later.



Train Timetables

☐ Use the timetable to answer the questions on the next page. (Times start from am)

Weekdays to Chester						Weekdays from Chester					
Cranville	Dandalough	Chester	Cranville	Dandalough	Chester	Chester	Dandalough	Cranville	Chester	Dandalough	Cranville
5:30	5:33	5:39	12:48	12:51	12:57	5:21	5:27	5:30	1:08	1:14	1:17
5:45	5:48	5:54	12:53	12:56	1:02	5:36	5:42	5:45	1:15	1:21	1:24
6:00	6:03	6:09	1:03	1:06	1:12	5:51	5:57	6:00	1:23	1:29	1:32
6:07	6:10	6:16	1:08	1:11	1:17	6:06	6:12	6:15	1:30	1:36	1:39
6:15	6:18	6:24	1:18	1:21	1:27	6:14	6:20	6:23	1:38	1:44	1:47
6:22	6:25	6:31	1:23	1:26	1:32	6:21	6:27	6:30	1:45	1:51	1:54
6:30	6:33	6:39	1:33	1:36	1:42	6:29	6:35	6:38	1:53	1:59	2:02
6:37	6:40	6:46	1:38	1:41	1:47	6:36	6:42	6:45	2:00	2:06	2:09
6:45	6:48	6:54	1:48	1:51	1:57	6:44	6:50	6:53	2:08	2:14	2:17
6:52	6:55	7:01	1:53	1:56	2:02	6:51	6:57	7:00	2:15	2:21	2:24
7:00	7:03	7:09	2:03	2:06	2:12	6:59	7:05	7:08	2:23	2:29	2:32
7:07	7:10	7:16	2:08	2:11	2:17	7:11	7:17	7:20	2:30	2:36	2:39
7:20	7:23	7:29	2:18	2:21	2:27	7:21	7:27	7:30	2:38	2:44	2:47
7:28	7:31	7:37	2:23	2:26	2:32	7:35	7:41	7:44	2:45	2:51	2:54
7:36	7:39	7:45	2:33	2:36	2:42	7:43	7:49	7:52	2:52	2:58	3:01
7:44	7:47	7:53	2:38	2:41	2:47	7:52	7:58	8:01	3:00	3:06	3:09
7:52	7:55	8:01	2:48	2:51	2:57	7:59	8:05	8:08	3:08	3:14	3:17
8:00	8:03	8:09	2:53	2:56	3:02	8:07	8:13	8:16	3:15	3:21	3:24
8:08	8:11	8:17	3:03	3:06	3:12	8:20	8:26	8:29	3:22	3:28	3:32
8:16	8:19	8:25	3:08	3:11	3:17	8:30	8:36	8:39	3:30	3:36	3:39
8:24	8:27	8:33	3:18	3:21	3:27	8:38	8:44	8:47	3:36	3:42	3:45
8:32	8:35	8:41	3:22	3:25	3:31	8:46	8:52	8:55	3:43	3:49	3:57
8:40	8:43	8:49	3:33	3:36	3:42	8:53	8:59	9:02	3:50	3:56	4:05
8:48	8:51	8:57	3:38	3:41	3:47	9:00	9:06	9:09	4:04	4:10	4:13
8:53	8:56	9:02	3:53	3:56	4:00	9:08	9:14	9:17	4:12	4:18	4:21
8:58	9:01	9:07	4:09	4:12	4:19	9:15	9:21	9:24	4:20	4:26	4:29
9:03	9:06	9:12	4:22	4:25	4:33	9:23	9:29	9:32	4:28	4:34	4:37
9:08	9:11	9:17	4:30	4:33	4:39	9:30	9:36	9:39	4:36	4:42	4:45
9:18	9:21	9:27	4:38	4:41	4:47	9:38	9:44	9:47	4:44	4:50	4:53
9:23	9:26	9:32	4:46	4:49	4:55	9:45	9:51	9:54	4:52	4:58	5:01
9:33	9:36	9:42	4:54	4:57	5:03	9:53	9:59	10:02	5:00	5:06	5:09
9:38	9:41	9:47	5:02	5:05	5:11	10:00	10:06	10:09	5:08	5:14	5:17
9:48	9:51	9:57	5:13	5:16	5:19	10:08	10:14	10:17	5:16	5:22	5:25
9:53	9:56	10:02	5:18	5:21	5:27	10:15	10:21	10:24	5:24	5:30	5:33
10:03	10:06	10:12	5:26	5:29	5:35	10:23	10:29	10:32	5:32	5:38	5:41
10:08	10:11	10:17	5:34	5:37	5:43	10:30	10:36	10:39	5:40	5:46	5:49
10:18	10:21	10:27	5:42	5:45	5:51	10:38	10:44	10:47	5:48	5:54	5:57
10:23	10:26	10:32	5:47	5:50	5:56	10:45	10:51	10:54	6:00	6:06	6:09
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10:48	10:51	10:57	6:18	6:21	6:27	11:08	11:14	11:17	6:46	6:52	6:55
10:53	10:56	11:02	6:33	6:36	6:42	11:15	11:21	11:24	7:00	7:06	7:09
11:03	11:06	11:12	6:48	6:51	6:57	11:23	11:29	11:32	7:30	7:36	7:39
11:08	11:11	11:17	7:03	7:06	7:12	11:30	11:36	11:39	8:00	8:06	8:09
11:18	11:21	11:27	7:18	7:21	7:27	11:38	11:44	11:47	8:30	8:36	8:39
11:23	11:26	11:32	7:34	7:37	7:43	11:45	11:51	11:54	9:00	9:06	9:09
11:33	11:36	11:42	7:48	7:51	7:57	11:53	11:59	12:02	9:30	9:36	9:39
11:38	11:41	11:47	8:18	8:21	8:27	12:00	12:06	12:09	10:00	10:06	10:09
11:48	11:51	11:57	8:48	8:51	8:57	12:08	12:14	12:17	10:30	10:36	10:39
11:53	11:56	12:02	9:18	9:21	9:27	12:15	12:21	12:24	11:00	11:06	11:09
12:03	12:06	12:12	9:48	9:51	9:57	12:23	12:29	12:32	11:30	11:36	11:39
12:08	12:11	12:17	10:18	10:21	10:27	12:30	12:36	12:39	12:00	12:06	12:09
12:18	12:21	12:27	10:48	10:51	10:57	12:38	12:44	12:47			
12:23	12:26	12:32	11:18	11:21	11:27	12:45	12:51	12:5			
12:33	12:36	12:42	11:48	11:51	11:57	12:53	12:59	1:02			
12:38	12:41	12:47	12:18	12:21	12:27	1:00	1:06	1:09			

Name:

Train Timetable

☐ Answer these questions using the train timetable.

At what time does:

- 1. The first train leave Cranville for Chester?
- 2. The first train leave Dandalough for Chester?
- 3. The last train leave Dandalough for Chester?
- 4. The last train leave Dandalough for Cranville?
- 5. How long does it take to travel from Cranville to Dandalough?

Approximate answers will do for these.

- 1. How often does the train run from Cranville to Chester in the early morning?
- 2. How often do trains run in the morning peak hour (7:30 - 8:30 am)?
- 3. How often do trains run from Chester to Cranville between 9:00 am - 12:00 noon?
- 4. If you lived in Cranville and needed to get home from Chester by 11:30 am, what is the latest time you would have to catch the train?
- 5. If you were travelling from Dandalough to Chester, which train would you catch to be in Chester by 10 am?
- 6. If you finished work in Chester at 5:30 pm and had a ten minute walk to the station, which train would you catch home?
- 7. If you lived five minutes from Cranville station and you had a ten minute walk from Chester station to work, which train would you need to catch to get to work by 9:00 am?

