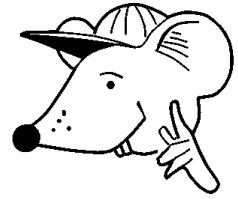


MATHEMATICS



N.S. Yr. 4 P.100

**Read the time from clocks, calendars
and timetables.**

Equipment

Paper, pencil, calendar (one provided at end of module), timetable

MathSphere

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Concepts

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 that the following are equivalent:

6:34

34 minutes past 6

26 minutes to 7

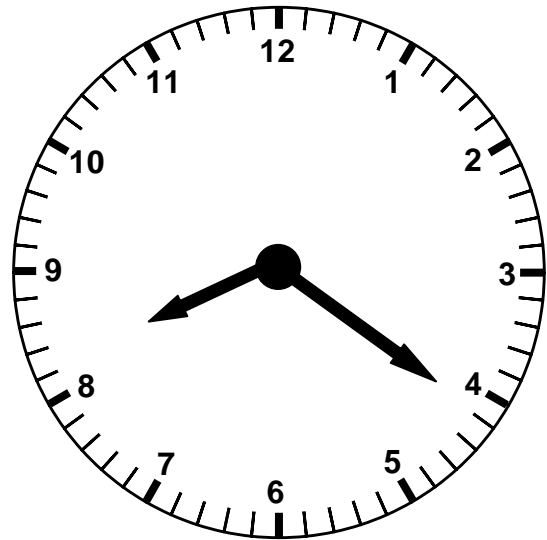
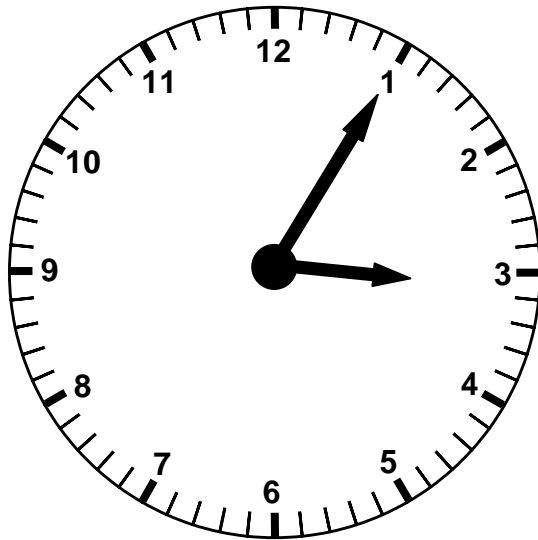
Children should understand and be able to use **a.m.** and **p.m.**

A set of blank clock faces with no hands is provided at the end of the module for your own use. Print out or photocopy as many copies as you need.

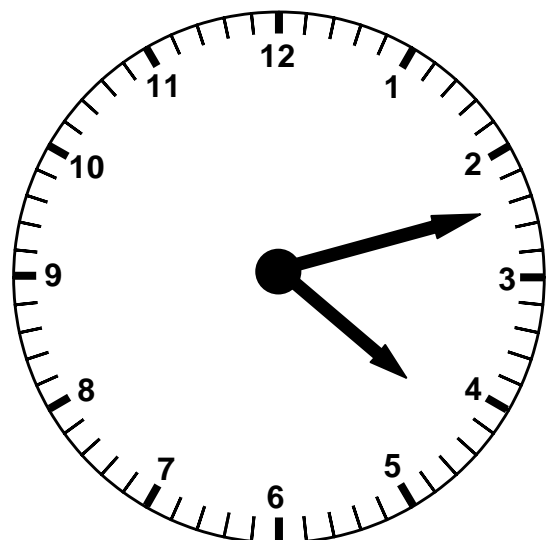
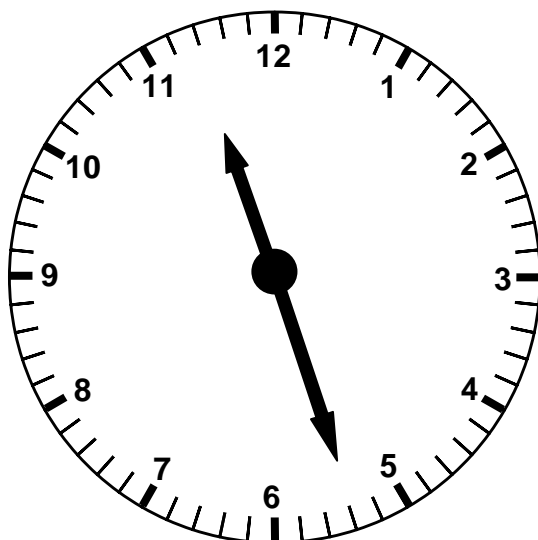
They should be able to read a calendar and perform simple calculations from it, such as work out how many days between two close dates. If you do not have a calendar, one is provided at the end of the module.

They should be able to read a simple timetable such as a bus or train timetable and a TV guide and work out simple problems involving these.

Read these clocks and write the time underneath. One has been done for you.

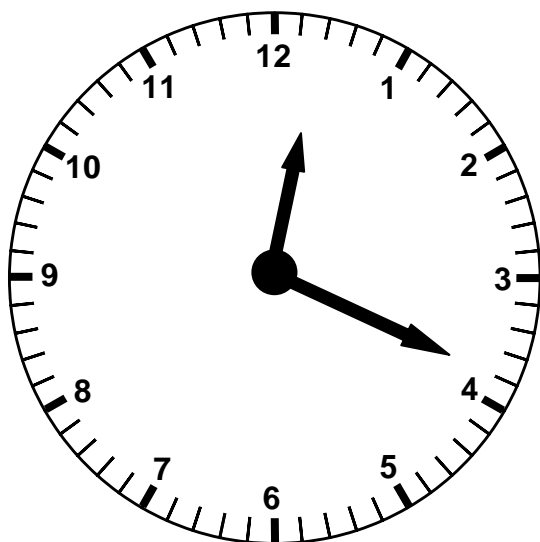


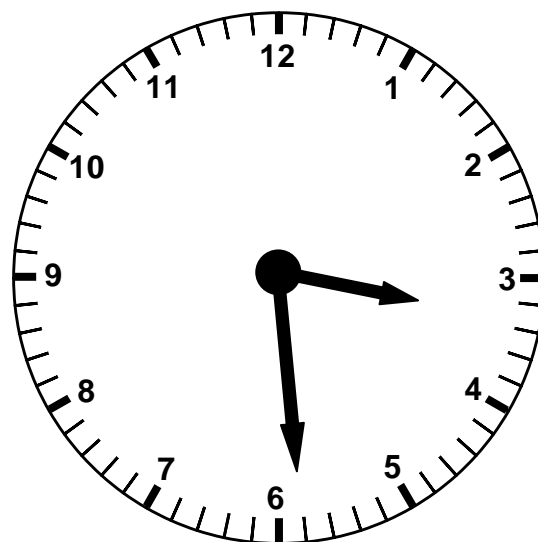
Five minutes past three

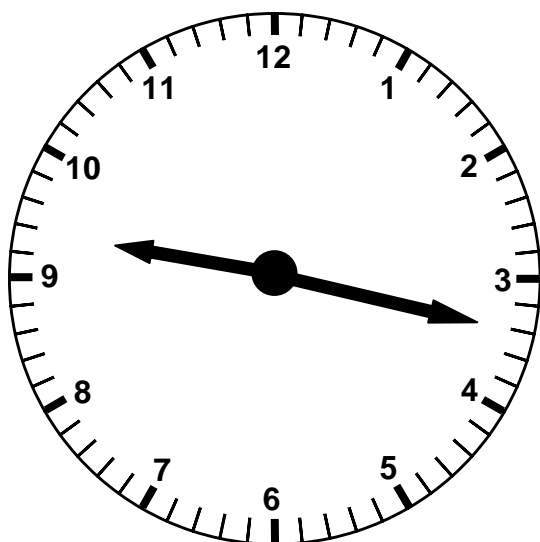


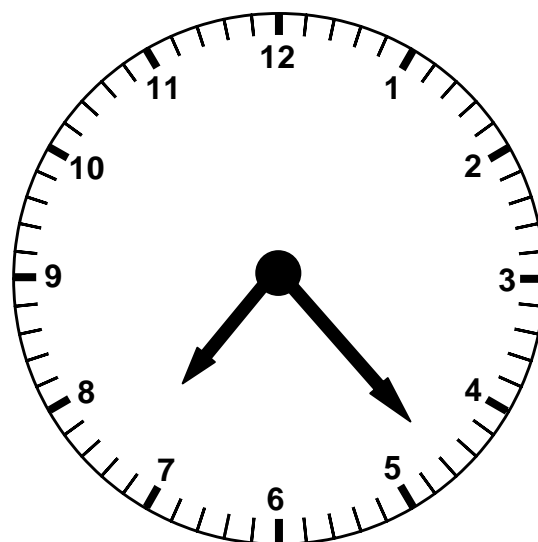
(Minutes past)

Read these clocks and write the time underneath.



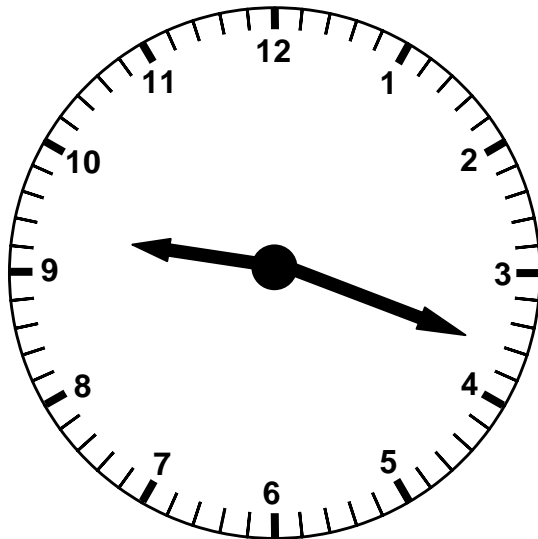


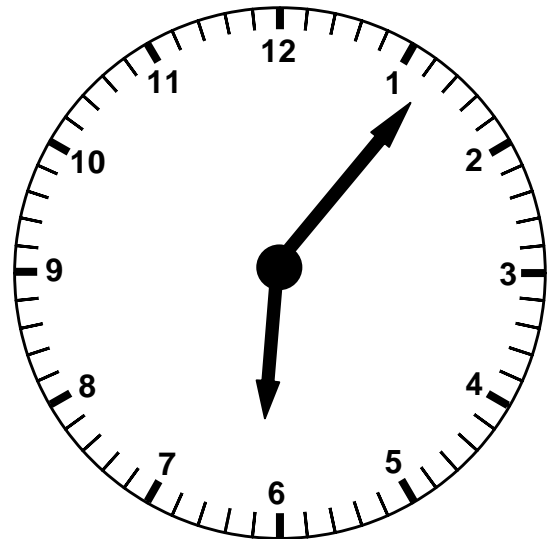


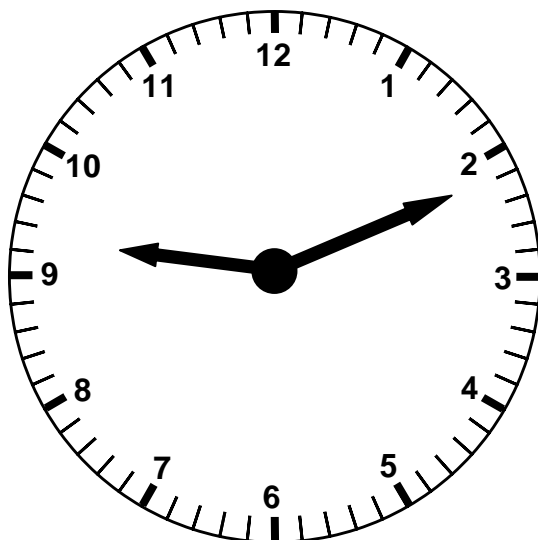


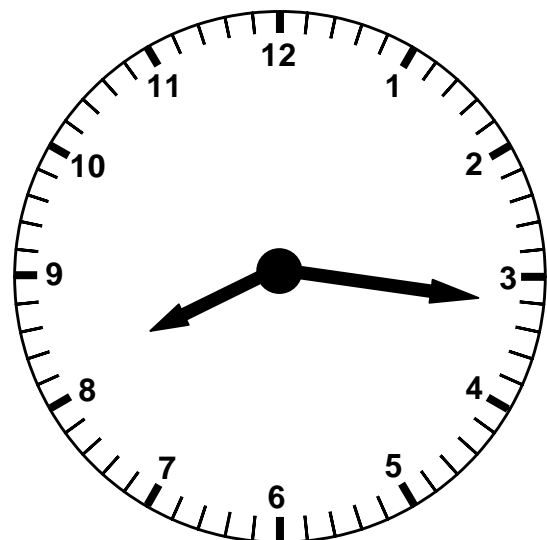
(Minutes past)

Read these clocks and write the time underneath.



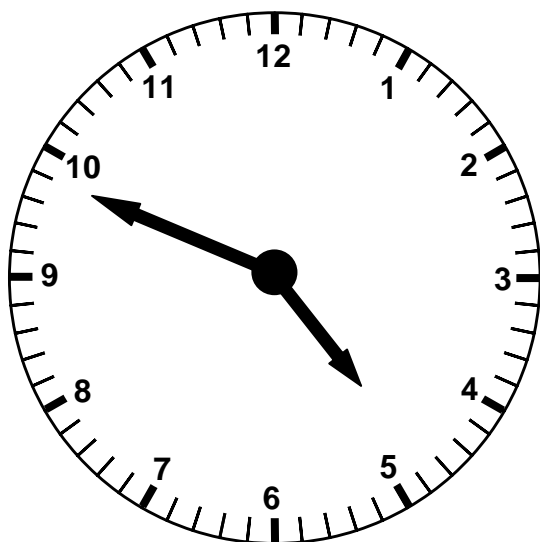


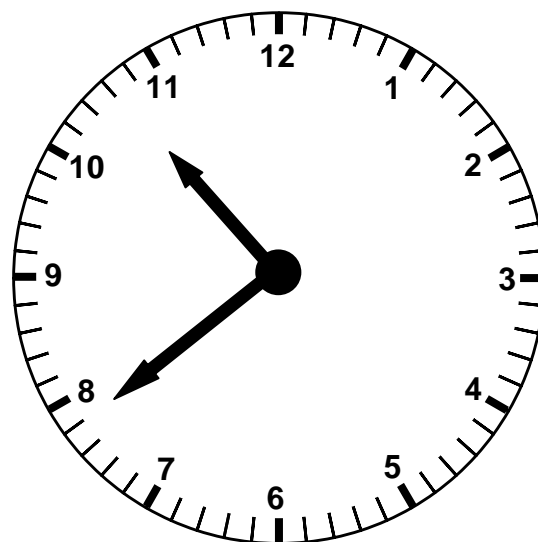


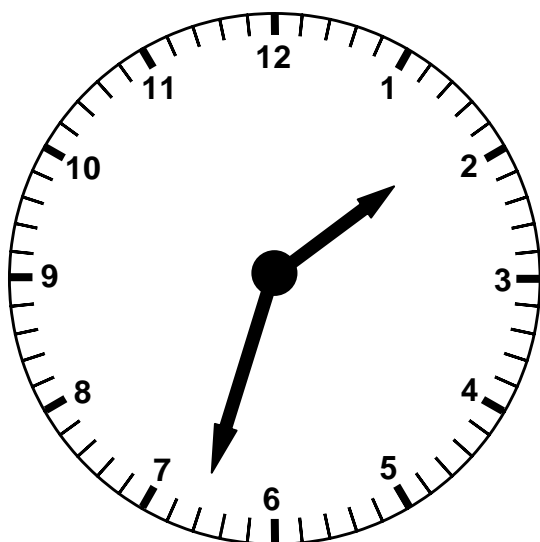


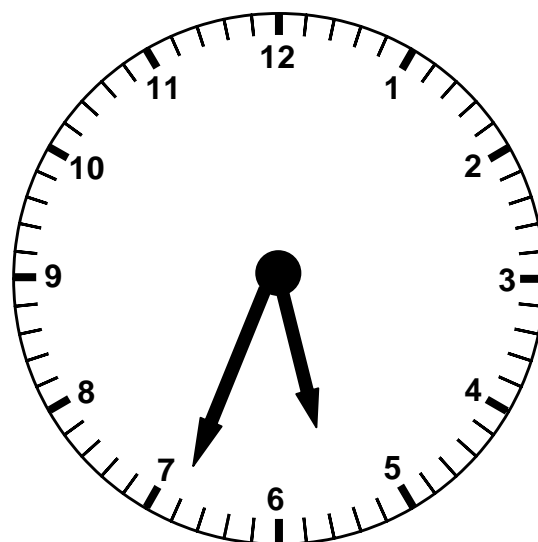
(Minutes past)

Read these clocks and write the time underneath.



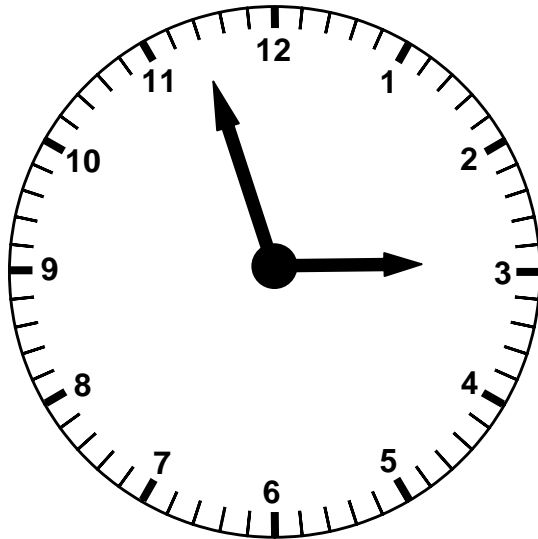


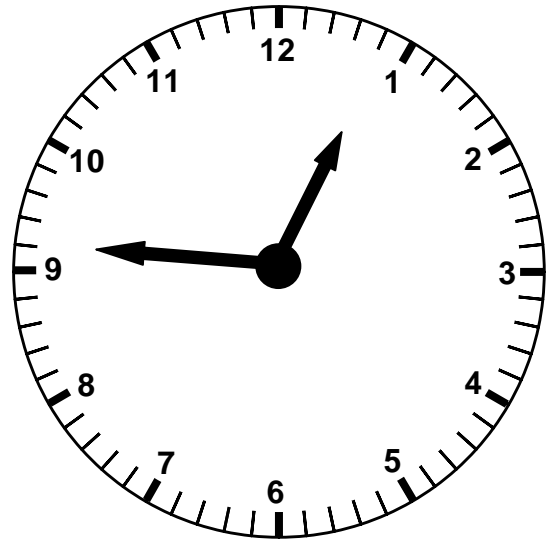


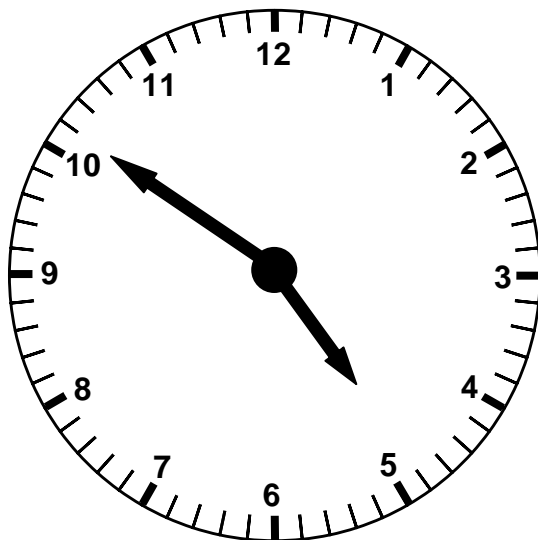


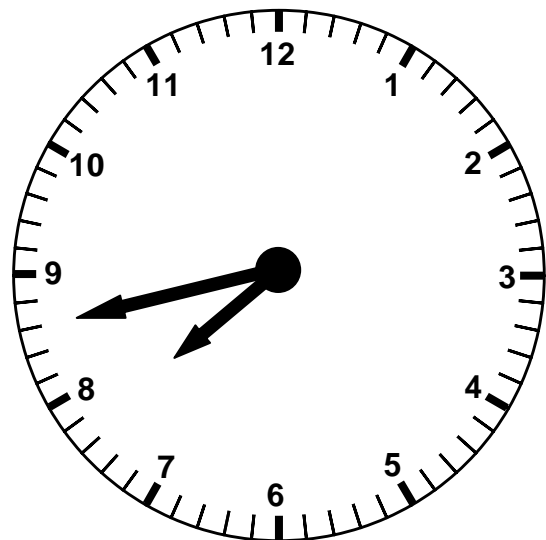
(Minutes to)

Read these clocks and write the time underneath.



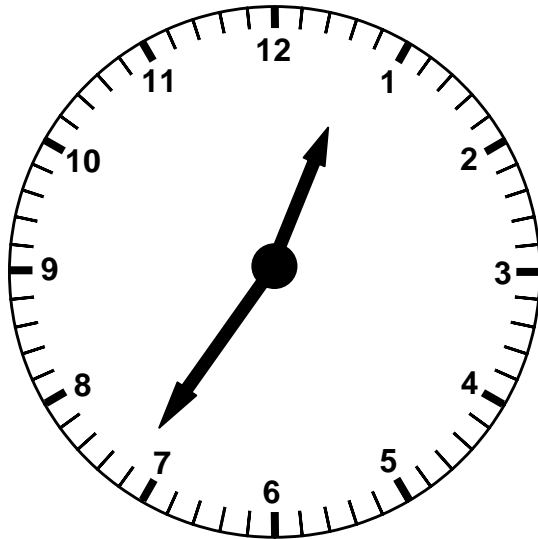




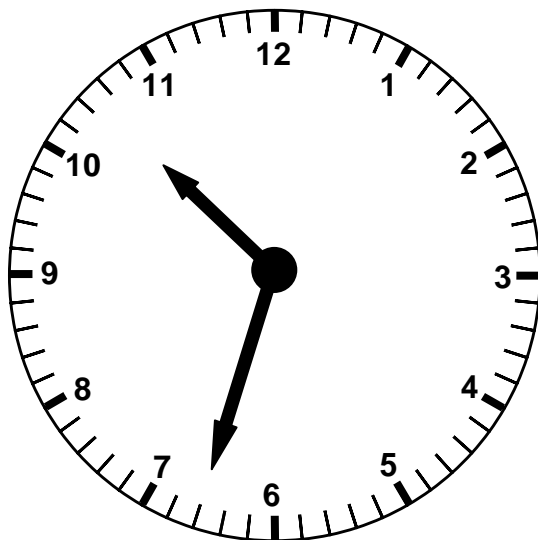


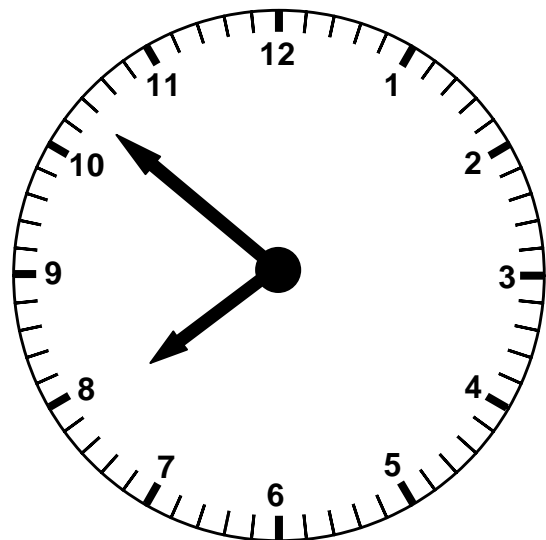
(Minutes to)

Read these clocks and write the time underneath.



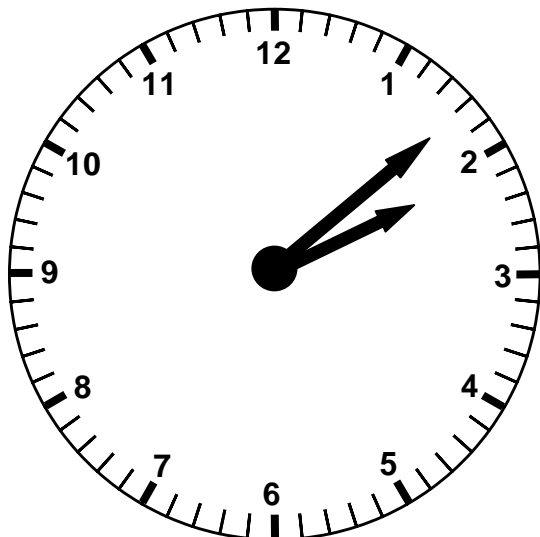


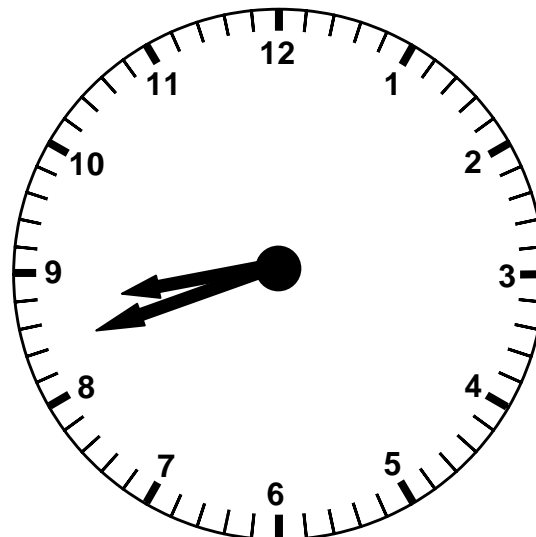




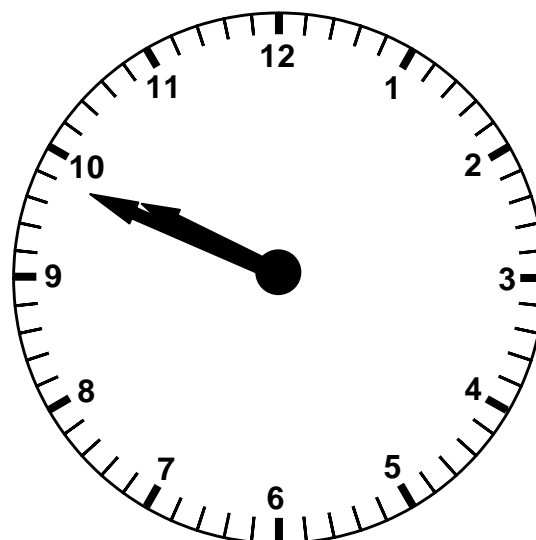
(Minutes to)

Read these clocks and write the time underneath.









(Hands close together)

Read these clocks and write the time in words underneath.
One has been done for you.

3:24

Twenty four minutes past three.

5:17**12:27**

10:01

6:16

8:22

Read these clocks and write the time in words underneath.

9:15

11:07

8:28

4:23

5:09

6:14

Read these clocks and write the time in words underneath in two ways. One has been done for you.

7:36

(i) Thirty six minutes past

seven.

(ii) Twenty four minutes

to eight.

8:56**1:39****9:40**

Read these clocks and write the time in words underneath in two ways.

2:46

11:47

12:58

12:37

Read these clocks and write the time in words underneath in two ways.

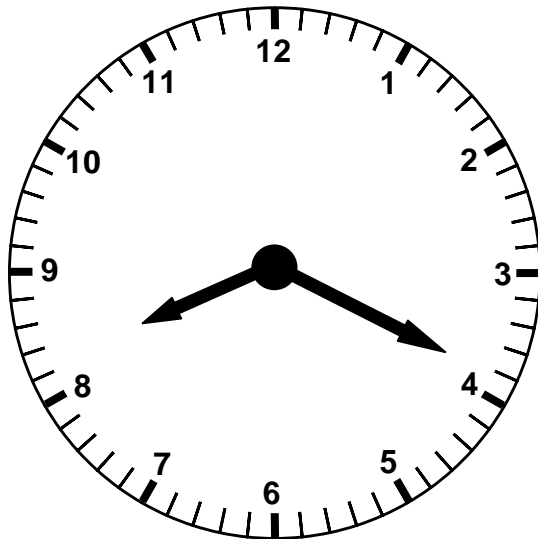
9:32

10:49

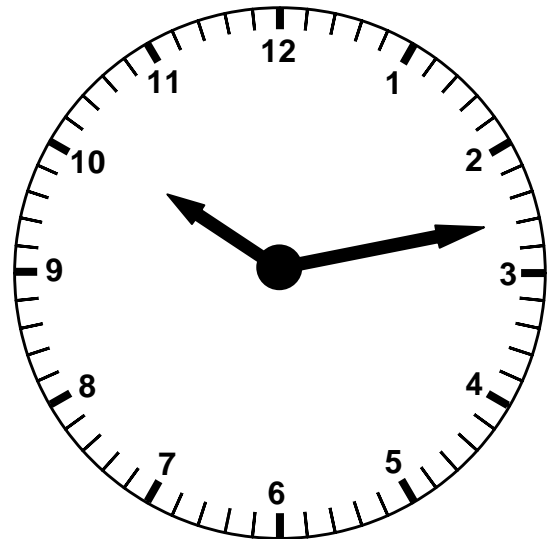
5:41

1:52

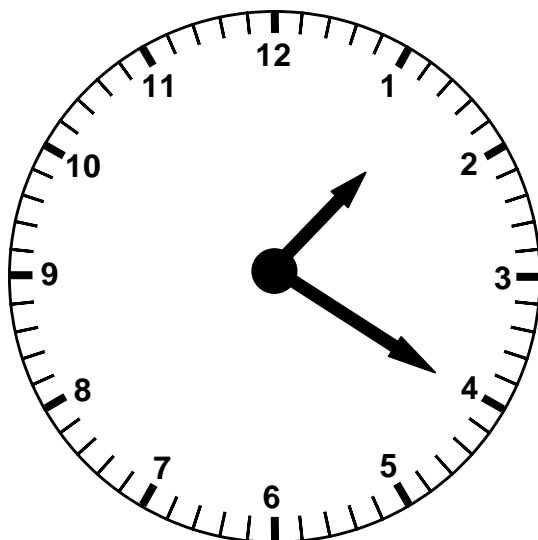
Read these clocks and write the time in the digital clock.



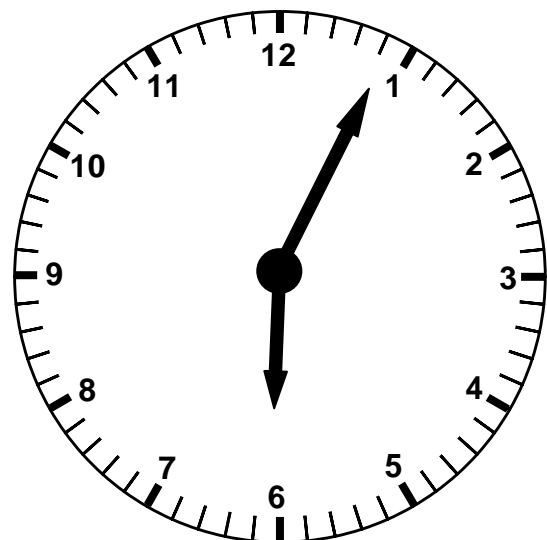
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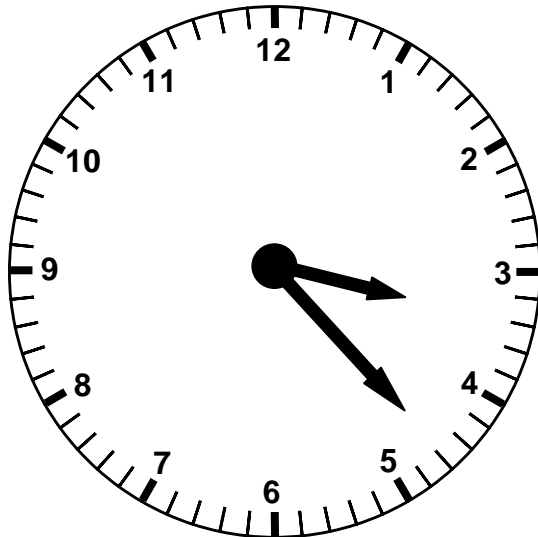


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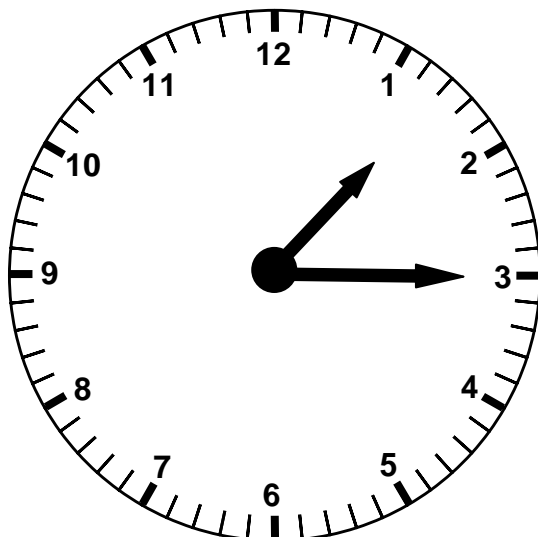
Read these clocks and write the time in the digital clock.



:



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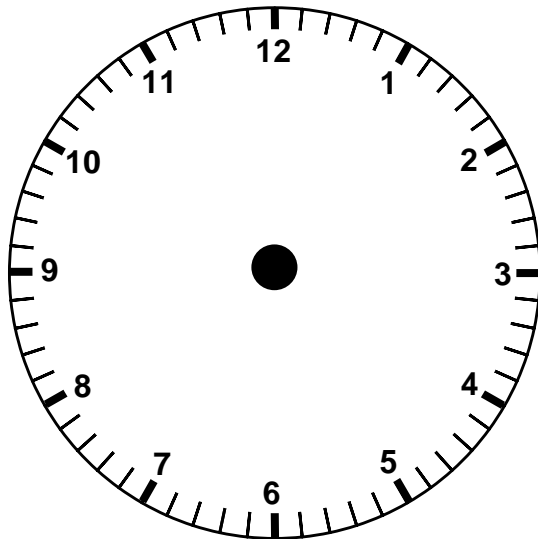


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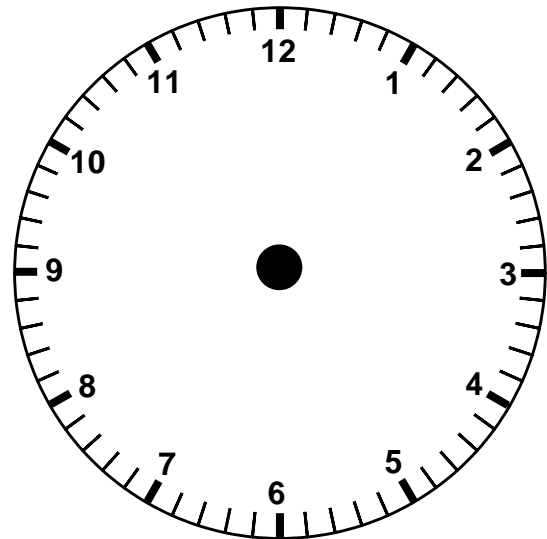


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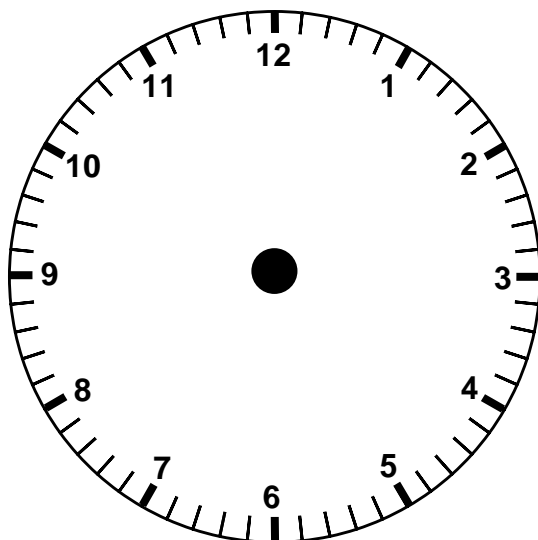
Read the digital clocks and draw in the clock hands.



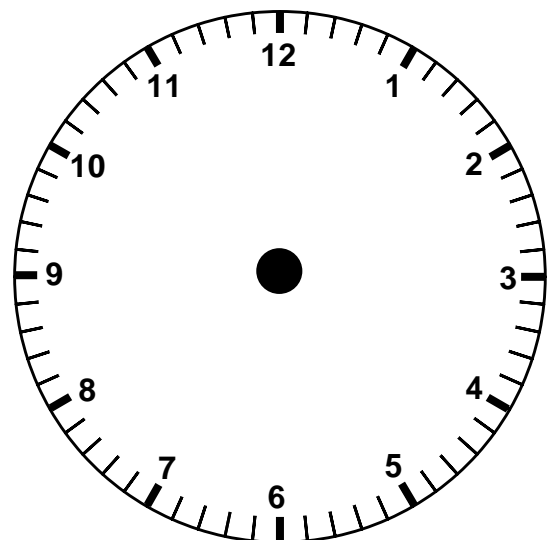
5:33



12:20

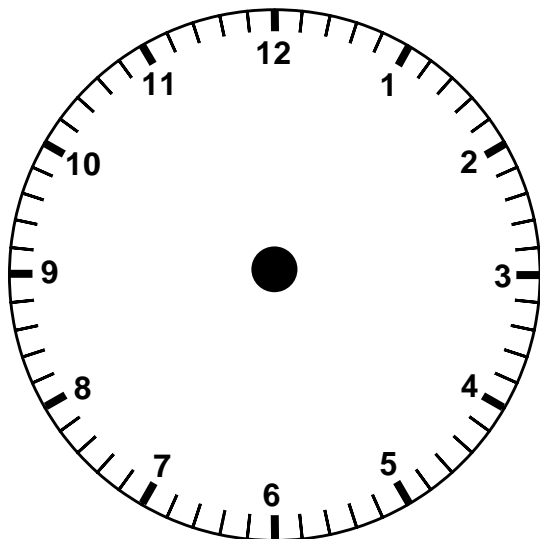


7:22

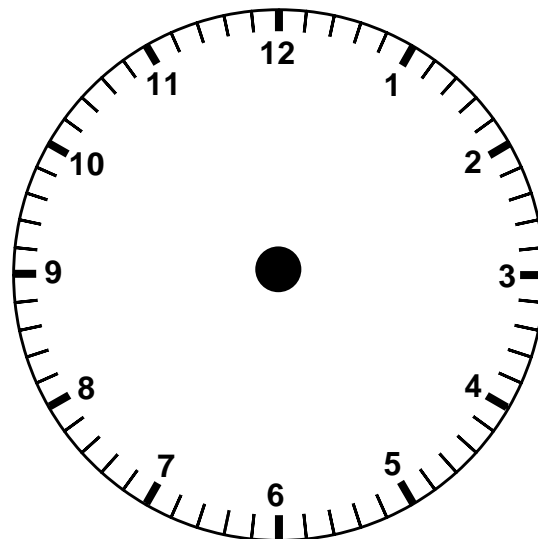


5:43

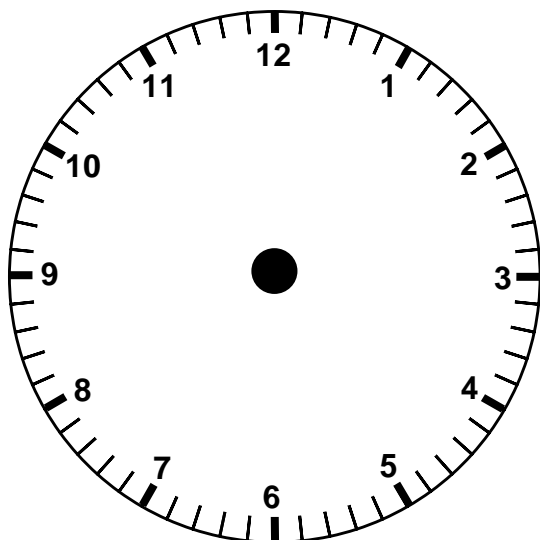
Read the digital clocks and draw in the clock hands.



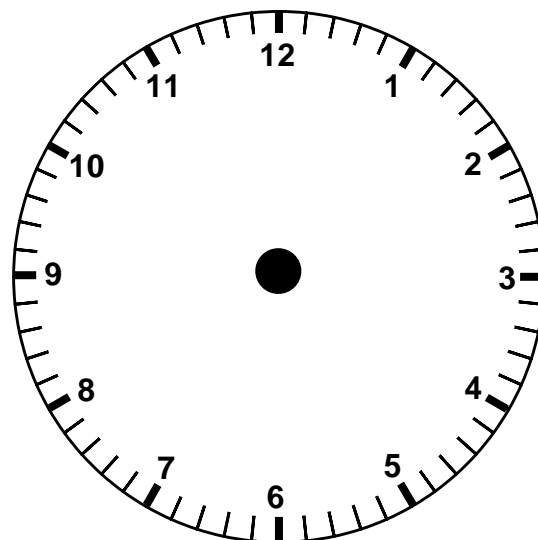
12:12



10:09

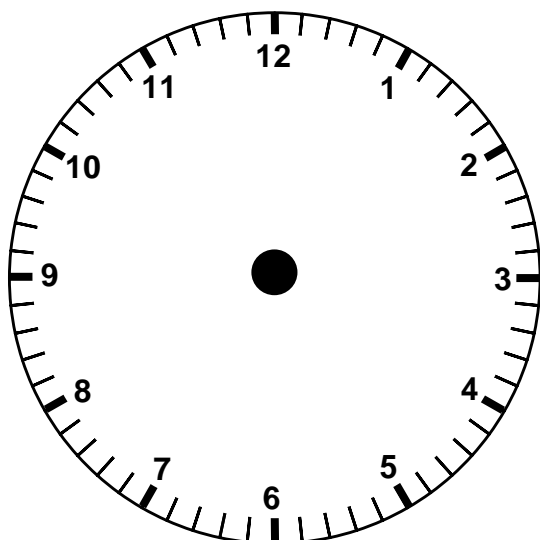


6:39

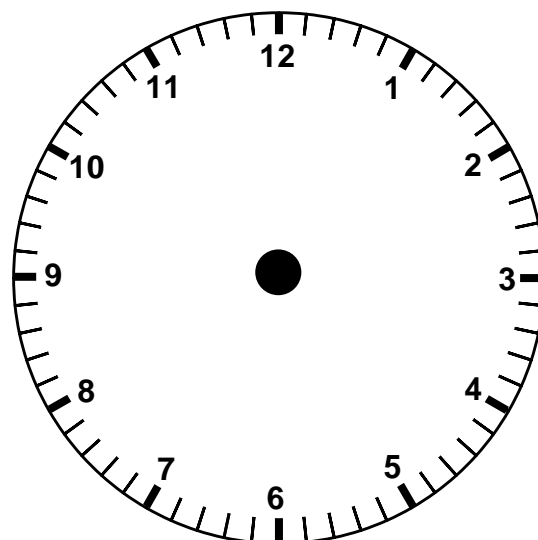


3:56

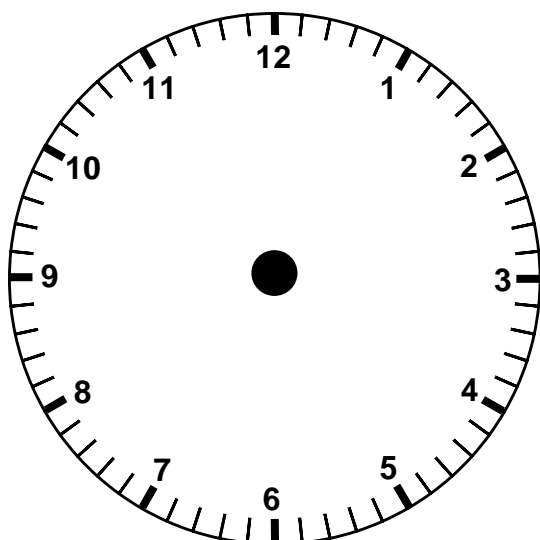
Read the digital clocks and draw in the clock hands.



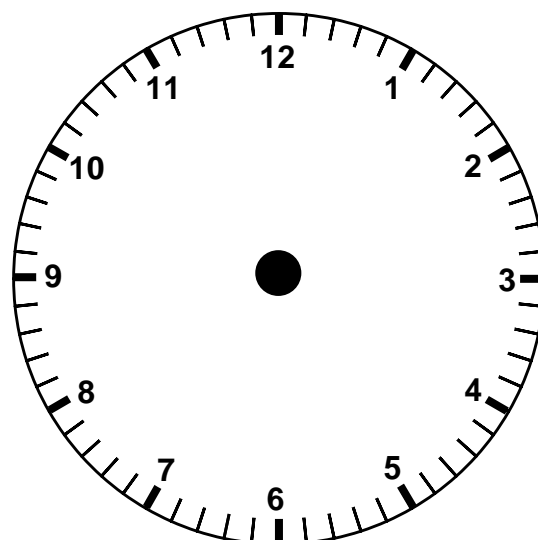
1:38



11:30

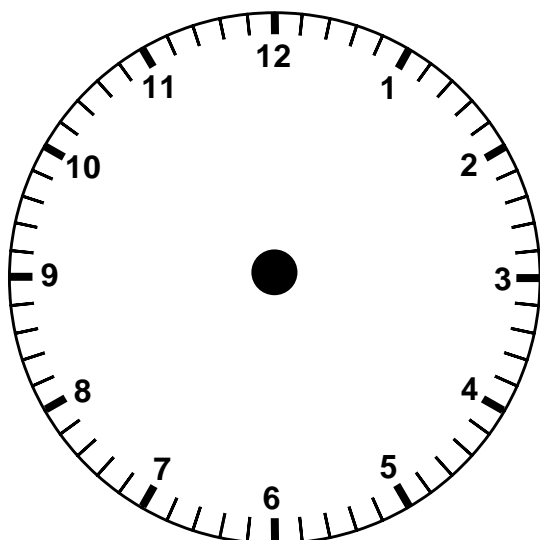


3:42

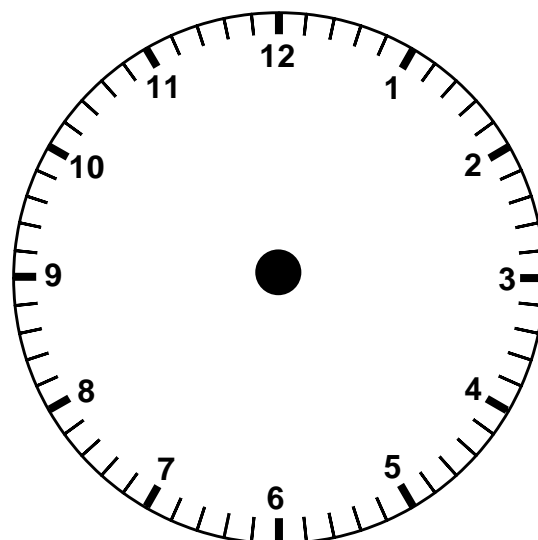


9:16

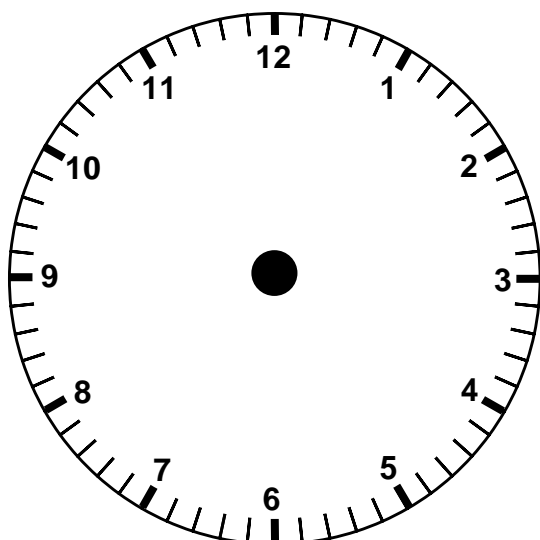
Read the digital clocks and draw in the clock hands.



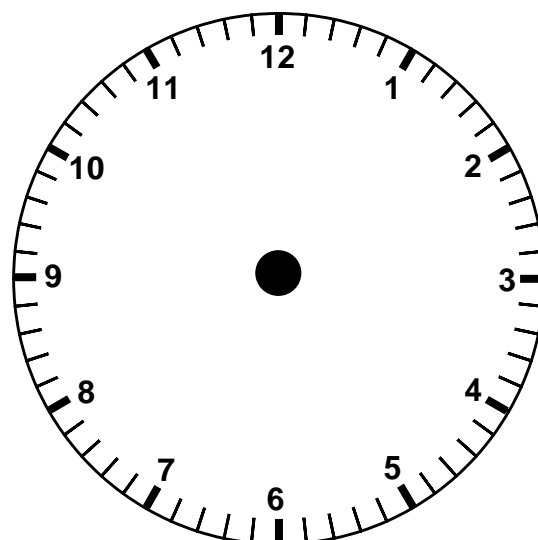
8:30



11:50



7:19



8:32

1. Write these times in **one** other way. The first is done for you.

a) **8:23** **23** minutes past **8**

b) **2:16** _____

c) **4:06** _____

d) **5:19** _____

e) **12:22** _____

f) **7:04** _____

2. Put **a.m.** or **p.m.** at the end of each sentence.

a) George got up to go to work at **6:20** _____

b) Mary had her tea at **5:30** _____

c) Michelle got married at **2:10** _____

d) Peter started school at **8:45** _____

e) Class 6C had morning break at **10:45** _____

3. Join each statement to **a.m.** or **p.m.** with an arrow.

a) Two hours after midnight.

a.m.

b) One hour before midday.

c) When children's television begins.

p.m.

d) Bedtime for most children.

1. Write these times in two other ways. The first is done for you.

a) **7:51** **51 minutes past 7**

9 minutes to 8

b) **8:32** _____

c) **10:40** _____

d) **3:48** _____

e) **1:57** _____

f) **9:38** _____

2. Put **a.m.** or **p.m.** at the end of each sentence.

a) Sylvia walked her dog at **3.15** _____

b) Harry played a school football match at **8.45** _____

c) Buddy went to the shops at **11.40** _____

d) Georgina went to bed at **8.20** _____

e) The shop closed at **5.30** _____

Write six things **you** do when it is **a.m.**

Write six things **you** do when it is **p.m.**

Use this year's calendar (or the one at the end of this module if you do not have one) to answer the following questions.

1. Which day of the week is **March 31st** ?
2. Which day of the week is **January 15th** ?
3. What is wrong with this:

Michael was born on **November 31st, 1984** ?
4. How many **Thursdays** are there in **March**?
5. Which months have **five Saturdays**?
6. What is the date of the **second Wednesday in February**?
7. How many days are there between **September 23rd** and **October 6th**?
8. How many weeks are there from **May 8th** to **June 19th**?
9. Which is later in the year, **September 16th** or **August 31st**?
10. Write down the number of days in each month and use a calculator to find the number in the year.

This time stuff's as easy as standing on your hand!

You should be able to tell the time by now.

Is it time for a biscuit yet?



Is there a big difference between what the TV guide says and how long each programme lasts? Can you explain these differences?

[illegible]

Carly works in a shop. This is what she does each day:

8:30 a.m. Puts new clothes out and tidies up.

9:00 a.m. Serves customers.

10:45 a.m. Has a break.

11:00 a.m. Serves customers.

1:00 p.m. Has lunch.

2:00 p.m. Serves customers.

3:35 p.m. Has a break.

3:50 p.m. Serves customers

5:30 p.m. Goes home.

- a) How long does Carly work before her first break?
- b) How long does she have altogether for breaks and lunch?
- c) For how long does Carly serve customers in her last period of work?
- d) What is Carly doing at **10:50 a.m.**?
- e) What is she doing at **8:45 a.m.**?
- f) What is she doing at **2:27 p.m.**?
- g) What is she doing at **5:32 p.m.**?

I bet Carly doesn't work as hard as me!



1. This timetable shows the times of trains to Toy Town.

8:30 a.m.	9:45 a.m.	11:00 a.m.	12:15 p.m.	1:30 p.m.	2:45 p.m.
----------------------------	----------------------------	-----------------------------	-----------------------------	----------------------------	----------------------------

- a) How long is it between trains?
- b) If you arrive at 12:57 p.m., how long must you wait for a train?
- c) If the first train takes 57 minutes to Toy Town, at what time does it arrive?
- d) The 1:30 p.m. train is 45 minutes late. What time does it come?
- e) How long is it between the second and the fifth trains?

2. This timetable is for four buses going from Charles Street to the pier. The time between stops is 15 minutes.

Fill in the gaps in the table.

Charles Street	9:15	10:20		11:30
Station				
Swimming Pool		10.50	11:30	
Town Centre				
Pier				

Answers

<p>Page 3 Five minutes past three. Twenty one minutes past eight. Twenty seven minutes past eleven. Twelve minutes past four.</p>	<p>Page 8 Twenty four minutes to one. Seventeen minutes to seven. Twenty seven minutes to eleven. Eight minutes to eight.</p>
<p>Page 4 Nineteen minutes past twelve. Twenty nine minutes past three Seventeen minutes past nine. Twenty three minutes past seven.</p>	<p>Page 9 Eight minutes past two. Eighteen minutes to nine. Twenty four minutes past four. Eleven minutes to ten.</p>
<p>Page 5 Eighteen minutes past nine. Six minutes past six. Eleven minutes past nine. Sixteen minutes past eight.</p>	<p>Page 10 Twenty four minutes past three. Seventeen minutes past five. Twenty seven minutes past twelve. One minute past ten. Sixteen minutes past six. Twenty two minutes past eight.</p>
<p>Page 6 Eleven minutes to five. Twenty one minutes to eleven. Twenty seven minutes to two. Twenty six minutes to six.</p>	<p>Page 11 Fifteen minutes past nine. Seven minutes past eleven. Twenty eight minutes past eight. Twenty three minutes past four. Nine minutes past five. Fourteen minutes past six.</p>
<p>Page 7 Three minutes to three. Fourteen minutes to one. Nine minutes to five. Seventeen minutes to eight.</p>	<p>Page 12 Thirty six minutes past seven. Twenty four minutes to eight. Fifty six minutes past eight. Four minutes to nine. Thirty nine minutes past one. Twenty one minutes to two. Forty minutes past nine. Twenty minutes to ten.</p>

Answers

<p>Page 13 Forty six minutes past two. Fourteen minutes to three.</p> <p>Forty seven minutes past eleven. Thirteen minutes to twelve.</p> <p>Fifty eight minutes past twelve. Two minutes to one.</p> <p>Thirty seven minutes past twelve. Twenty three minutes to one.</p>	<p>Page 21 1. a) 23 minutes past 8. b) 16 minutes past 2. c) 6 minutes past 4. d) 19 minutes past 5. e) 22 minutes past 12. f) 4 minutes past 7.</p> <p>2. a) a.m. b) p.m. c) p.m. d) a.m. e) a.m.</p> <p>3. a) and b) to <u>a.m.</u> c) and d) to <u>p.m.</u></p>
<p>Page 14 Thirty two minutes past nine. Twenty eight minutes to ten.</p> <p>Forty nine minutes past ten. Eleven minutes to eleven.</p> <p>Forty one minutes past five. Nineteen minutes to six.</p> <p>Fifty two minutes past one. Eight minutes to two.</p>	<p>Page 22 1. a) 51 minutes past 7 9 minutes to 8</p> <p>b) 32 minutes past 8 28 minutes to 9</p> <p>c) 40 minutes past 10 20 minutes to 11</p> <p>d) 48 minutes past 3 12 minutes to 4</p> <p>e) 57 minutes past 1 3 minutes to 2</p> <p>f) 38 minutes past 9 22 minutes to 10</p> <p>2. a) p.m. b) a.m. c) a.m. d) p.m. e) p.m.</p>
<p>Page 15 8:19 10:13 1:20 6:04</p>	
<p>Page 16 3:23 6:52 1:15 7:08</p>	

Answers

Page 24

These answers are based on the calendar at the end of the module. Check with your own calendar if different.

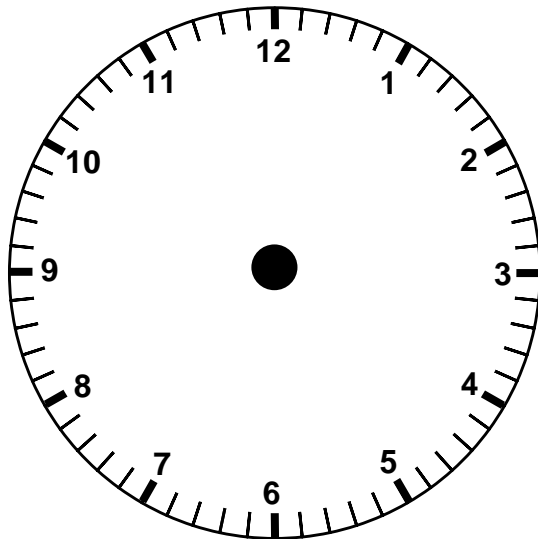
1. Wednesday 2. Friday
3. There are only 30 days in November.
4. 4
5. January, May, July, October.
6. 10th 7. 13 days
8. 6 weeks 9. September 16th.
10. Total 365 days

Page 26

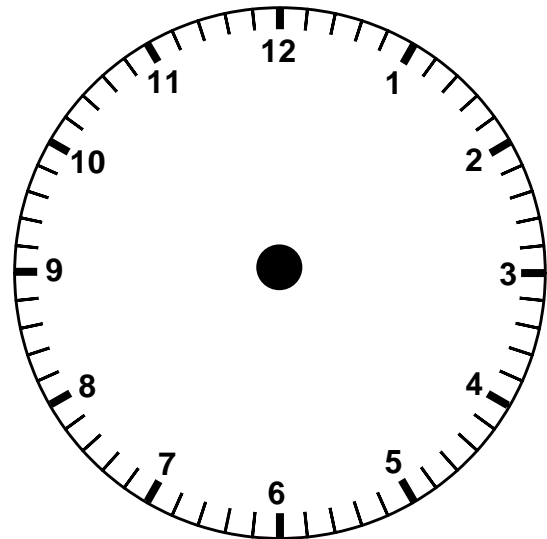
- a) 2 hrs 15 mins
- b) 1 hr 30 mins
- c) 1 hr 40 mins
- d) Having a break.
- e) Putting out clothes/tidying up.
- f) Serving customers.
- g) Going home.

Page 27

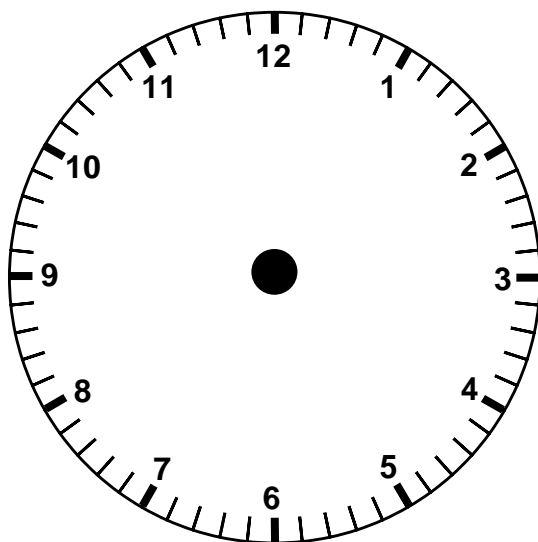
1.
 - a) 1 hr 15 mins
 - b) 33 mins
 - c) 9:27 a.m.
 - d) 2:15 p.m.
 - e) 3hrs 45 mins
2. **9:15 10:20 11:00 11:30**
 9:30 10:35 11:15 11:45
 9:45 **10:50 11:30** 12:00
 10:00 11:05 11:45 12:15
 10:15 11:20 12:00 12:30



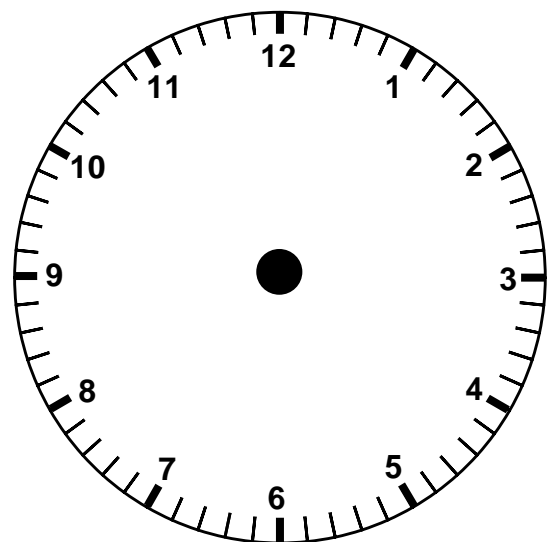
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Calendar 1999

<i>January</i>						
M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

<i>February</i>						
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

<i>March</i>						
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

<i>April</i>						
M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

<i>May</i>						
M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

<i>June</i>						
M	T	W	T	F	S	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

<i>July</i>						
M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

<i>August</i>						
M	T	W	T	F	S	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

<i>September</i>						
M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

<i>October</i>						
M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

<i>November</i>						
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

<i>December</i>						
M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		