

8.1 Telling Time to the Hour Page 1

Student Book pages 262-264

text pg 263 + 264 #1-8

GOAL

Read and record clock times to the hour, and identify activities for different times.

Problem

Ethan gets up, begins school, eats lunch, eats dinner, and goes to bed at the same time every day.

 How can you use times to show what you do each day?

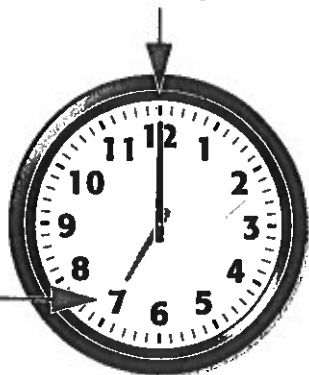
Read the times that show what Ethan does every day.

Ethan gets up at 7 o'clock in the morning.

That is 7:00 a.m.

The minute hand points to 12.

At 7:00 the hour hand points to 7.



a.m.

From midnight to before noon

Read the time Ethan begins school.



The minute hand is pointing to _____.

The hour hand is pointing to _____.

Ethan begins school at _____ .m.

8.1 Telling Time to the Hour Page 2

Ethan eats lunch at 12 noon.



That is 12:00 p.m.

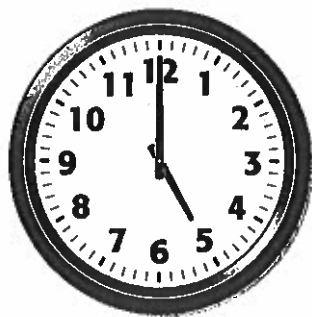
The minute hand is pointing to _____.

The hour hand is pointing to _____.

p.m.

From noon to before
midnight

Read the time Ethan eats dinner.



The minute hand is pointing to _____.

The hour hand is pointing to _____.

Ethan eats dinner at _____ .m.

Read the time Ethan goes to bed.



The minute hand is pointing to _____.

The hour hand is pointing to _____.

Ethan goes to bed at _____ .m.

Reflecting

Why do you have to look at both the hour hand and the minute hand to know what time it is?

Chapter 8 Lesson 1

Telling Time to the Hour

GOAL

Read and record clock times to the hour, and identify activities for different times.

1. Write these times using numbers and words.

The first one is done for you.

- a) 4:00 p.m. 4 o'clock in the afternoon
 b) 2:00 a.m. _____
 c) 10:00 p.m. _____

2. Write these times using numbers and a.m.
or p.m. 3 o'clock in the morning 3:00 a.m.

- a) 1 o'clock in the afternoon _____
 b) 7 o'clock in the evening _____
 c) 11 o'clock in the morning _____

3. Write these morning times in 2 ways with numbers and words.





4. Write these night times in 2 ways with numbers and words.





At-Home Help

On an **analog clock**, the short hand points to the hour. The long hand points to the minutes. For example, this clock shows 8:00.

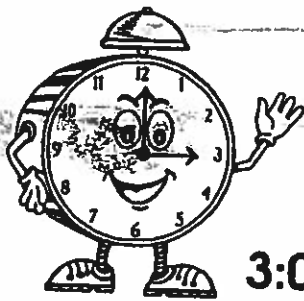
The minute hand points to 12.

The hour hand points to 8.



Use the letters **a.m.** for the hours from midnight to before noon (morning hours). For example, 7:00 a.m., or 7 o'clock in the morning.

Use the letters **p.m.** for the hours from noon to before midnight (afternoon, evening, and night hours). For example, 2:00 p.m., or 2 o'clock in the afternoon.



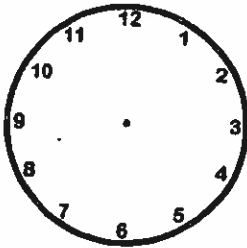
3:00

O'clock

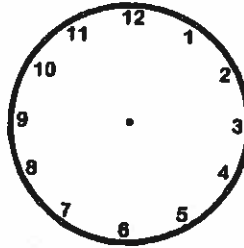


8:00

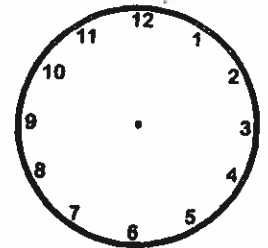
Put the time on each clock correctly.



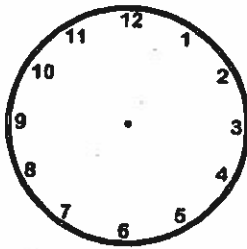
5:00



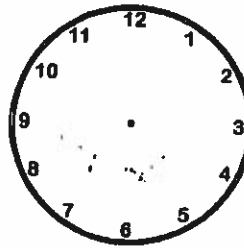
10:00



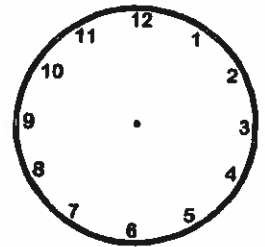
7:00



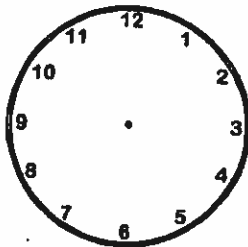
9:00



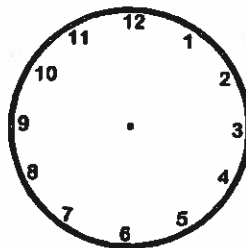
4:00



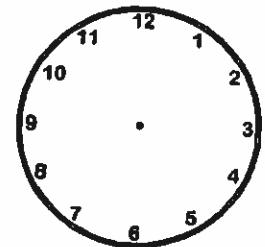
2:00



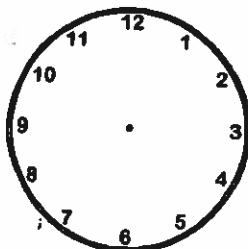
twelve o'clock



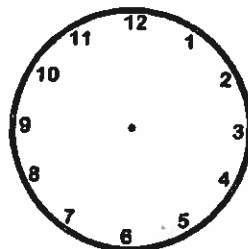
six o'clock



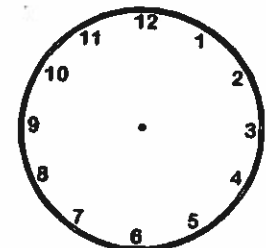
three o'clock



one o'clock



eight o'clock



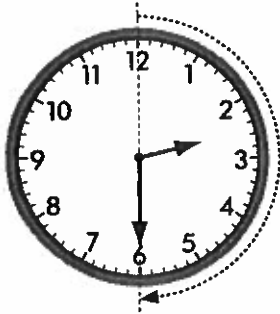
eleven o'clock

Time – half past

The time shown on this clock is **2 o'clock**.

The minute (big) hand is on the 12.

The hour (little) hand is on the 2.

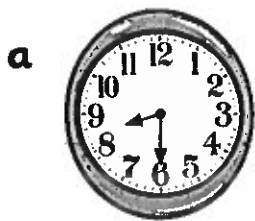


The time shown on this clock is **half past 2**.

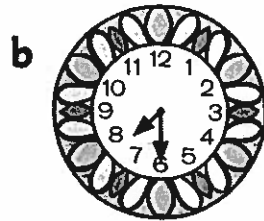
The minute hand has moved halfway to the next hour. It is pointing to the 6.

The hour hand has also moved halfway to the next hour. It is halfway between the 2 and the 3.

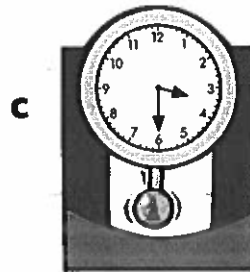
1 What is the time?



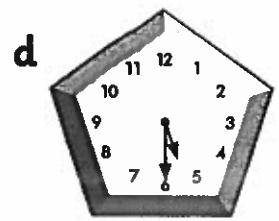
half past ____



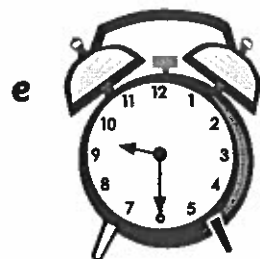
half past ____



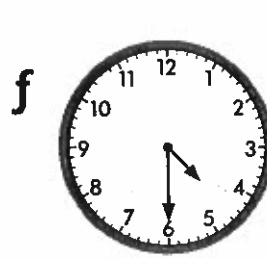
half past ____



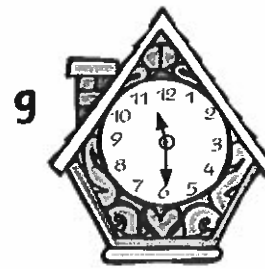
half past ____



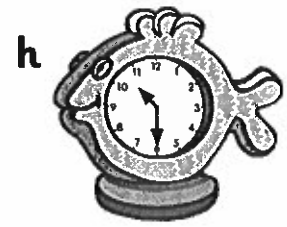
half past ____



half past ____



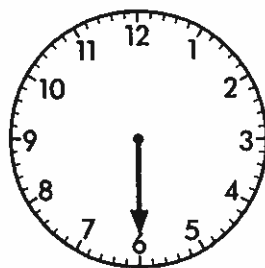
half past ____



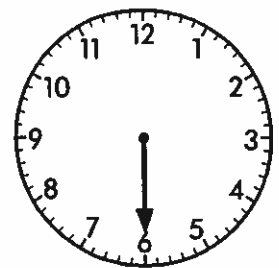
half past ____

2 Draw the hour hands on the clocks to finish the times.

a half past 7



b half past 10

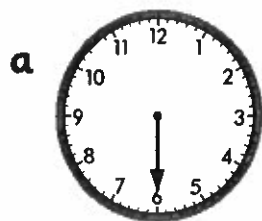


Time – half past

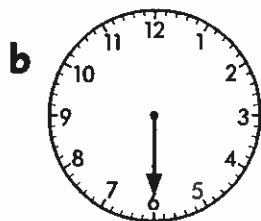
When making half past times on clocks we need to make sure we draw the hour hand **halfway** between the hours, not **on** the hours.

We also have to make sure the minute hand is **longer** than the hour hand, otherwise we can't tell the time properly.

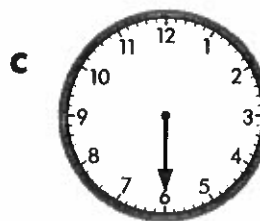
1 Draw in the missing hands to finish these half past times.



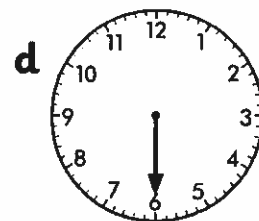
half past 4



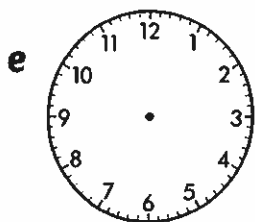
half past 7



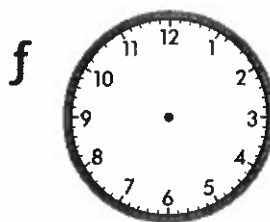
half past 9



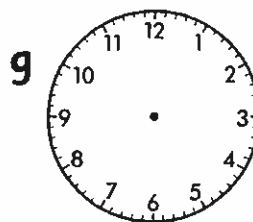
half past 11



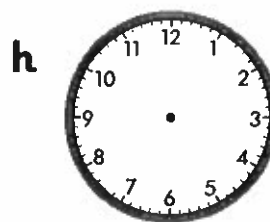
half past 2



half past 10



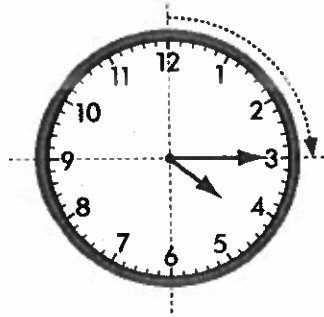
half past 6



half past 3

2 What are some things you do over the day at a half past time?

Time – quarter past



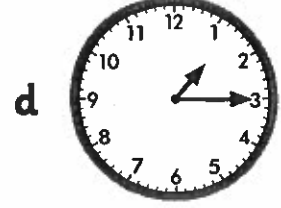
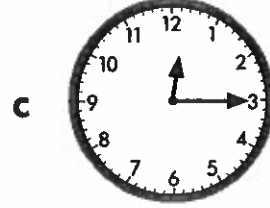
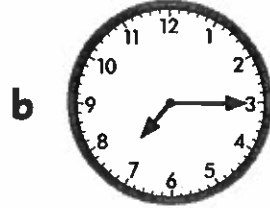
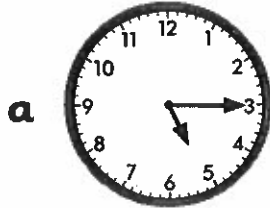
This clock shows a quarter past 4.

We know there are 60 minutes in an hour and one quarter of 60 is 15. Quarter past means it is 15 minutes past the hour.

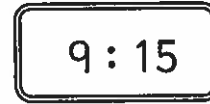
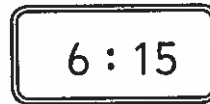
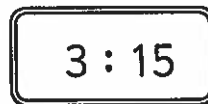
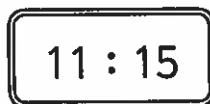
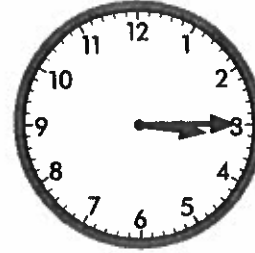
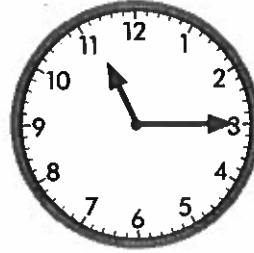
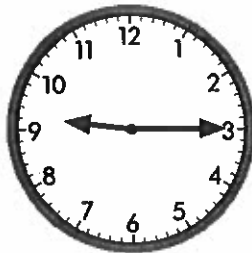
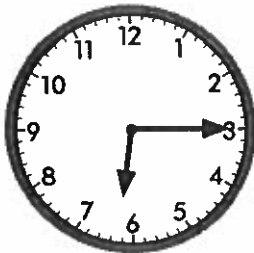
This is how we express it in digital time:



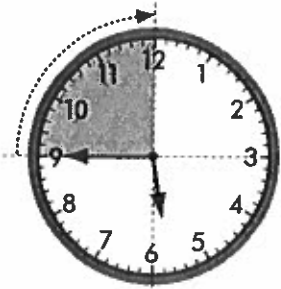
1 Express these times in digital form. *Write in words.*



2 Draw lines to match the quarter past times. *Write in words under each.*



Time – quarter to



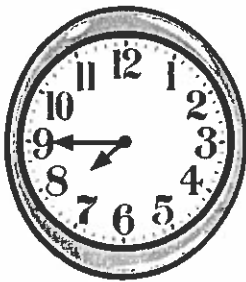
The time shown on this clock is a quarter to 6.
This means that 45 minutes have passed since 5 o'clock and that it is 15 minutes until 6 o'clock.

In digital form, we write this as



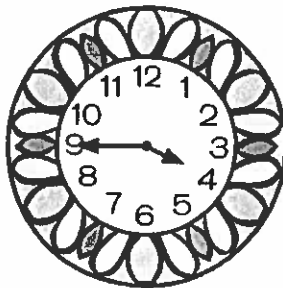
1 What is the time?

a



quarter to ____

b



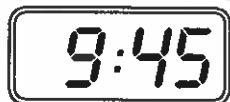
quarter to ____

c



quarter to ____

d

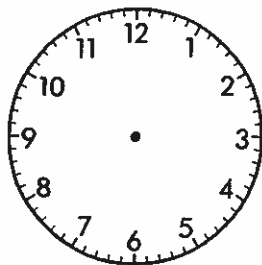


quarter to ____

2 Draw the missing hands on the clocks to finish the times.

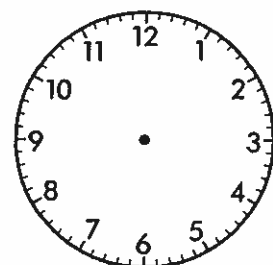
a

quarter
to 5



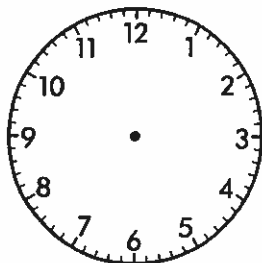
b

6:45



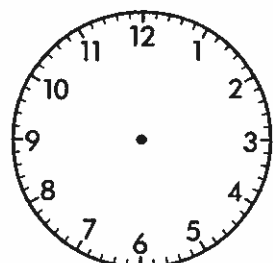
c

10:45



d

quarter
to 3



8.2 Time to the Half Hour and Quarter Hour Page 1

Student Book pages 266–267

GOAL

Read and record clock times to the half hour and quarter hour.

Problem

Kate and Ethan went on a hike.

They knew they had to be home in 1 hour.

Kate checked her watch every half hour.

Ethan checked his watch every quarter hour.



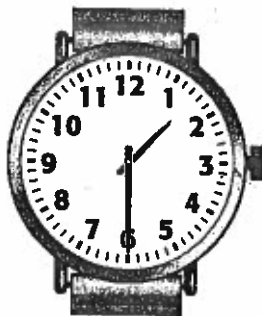
At what times did they each check the time?

Step 1: Read the times Kate checked her watch.

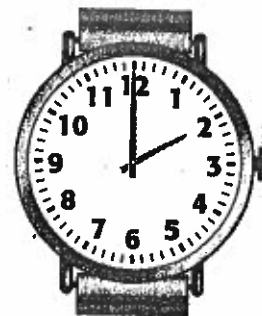
60 minutes
in 1 hour



The minute hand is at 12.
The hour hand is at 1.
The time is 1:00.



The minute hand has moved
halfway around the watch and
is pointing at 6.
The hour hand has moved
halfway toward the 2.
The time is _____.



The minute hand is at 12.
The hour hand is at 2.
The time is _____.



Name: _____ Date: _____

8.2 Time to the Half Hour and Quarter Hour Page 2

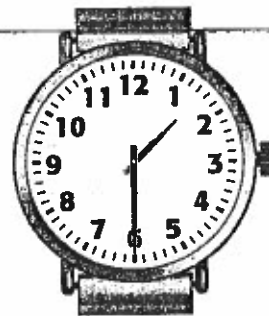
Step 2: Read the times Ethan checked his watch.



The minute hand is at 12.
The hour hand is at 1.
The time is 1:00.



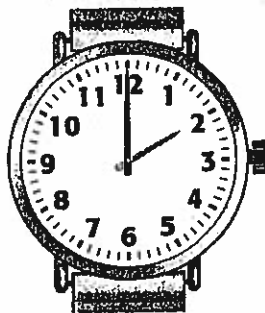
The minute hand has moved a quarter of the way around the watch and is pointing at 3.
The hour hand has moved toward the 2.
The time is _____.



The minute hand has moved halfway around the watch and is pointing at 6.
The hour hand has moved halfway toward the 2.
The time is _____.



The minute hand has moved three quarters of the way around the watch and is pointing at 9.
The hour hand has moved toward the 2.
The time is _____.



The minute hand is at 12.
The hour hand is at 2.
The time is _____.

Reflecting

Why do we use fraction names like *half past* and *a quarter to* when we talk about times?

Chapter 8

Lesson 2

Time to the Half Hour and Quarter Hour

GOAL

Read and record clock times to the half hour and quarter hour.

1. Write the time using fraction words like *quarter* and *half*.

- a) 8:15 _____
 b) 2:45 _____
 c) 4:30 _____

2. Write the time in 3 ways using numbers and words.



At-Home Help

You can use words, numbers, and fraction words to talk about times. For example:

6:15, or *six fifteen*, or *a quarter after six*

6:30, or *six thirty*, or *half past six*

6:45, or *six forty-five*, or *a quarter to seven*

3. Write each time in 2 ways.

a)



c)



e)



b)



d)



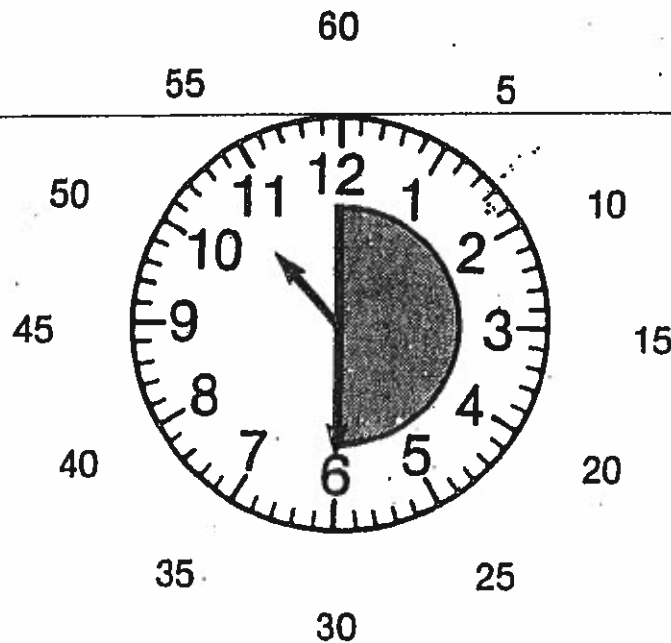
f)



Name _____

Half hours

The minute hand has moved halfway around the clock to the 6. The hour hand has moved halfway to the next hour. When the minute hand points to the 6, thirty minutes of the hour have passed.



Shade half of each clock to show that thirty minutes have passed. Write the hour and minutes (:30) for the time shown on each clock.

<p><u>2:30</u></p>	<p><u> </u></p>	<p><u> </u></p>	<p><u> </u></p>
<p><u> </u></p>	<p><u> </u></p>	<p><u> </u></p>	<p><u> </u></p>

8.3 Telling Time to 5 Minutes Page 1

Student Book pages 268–270

Student Book pages 268–270

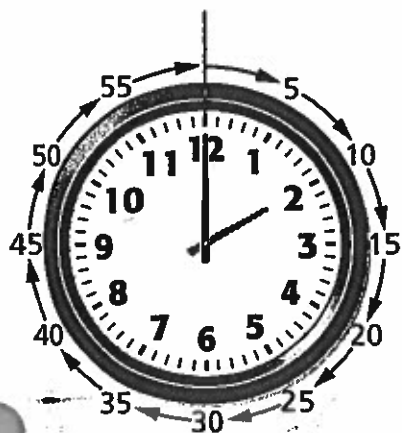
GOAL

Read and record clock times to the 5-minute marks.

Problem

Cory wanted to keep track of how many pages he could read in an hour.

He started at 2 o'clock and checked the time every 5 minutes.



How many times did Cory check his clock?

Step 1: Start at 2 o'clock.

Skip count by 5s to tell the minutes after 2 o'clock.

2:00, 2:05, 2:10, 2:____, 2:____, 2:____, 2:____, 2:____, 2:____, 2:____, 2:____, 2:____, 3:00

Step 2: Count the number of times Cory checked his clock.

Cory checked his clock _____ times.

L

Name: _____ Date: _____

8.3 Telling Time to 5 Minutes Page 2**Reflecting**

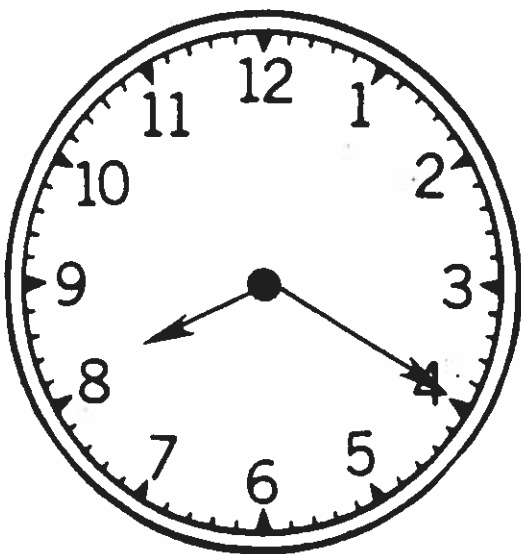
What did Cory check first: the hour hand or the minute hand?

Why do you think that Cory did this?

Why do you think that ten minutes to three is another name for 2:50?

Write the minutes on the lines.

1.

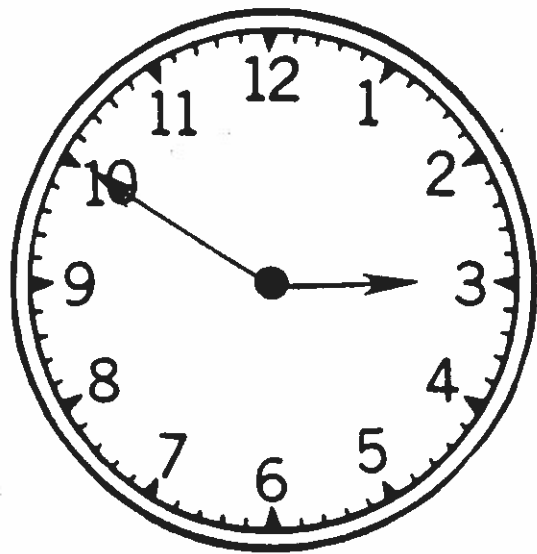


_____ minutes past 8

_____ minutes to 9

8: _____

2.



_____ minutes past 2

_____ minutes to 3

2: _____

Chapter 8
Lesson 3

Telling Time to 5 Minutes

GOAL

Read and record clock times to the 5-minute marks.

1. Write the time using numbers.

a) 10 minutes after 3 _____

b) 5 minutes to 4 _____

2. Write the time using the words *to* or *after*.
The first one is done for you.

a) 8:55 _____ 5 minutes to 9

b) two twenty _____

c) six forty _____

At-Home Help

You can write times using the words *to* and *after*. For example:

2:40, or *two forty*, or
40 minutes after 2, or
20 minutes to 3

5:50, or *five fifty*, or
50 minutes after 5, or
10 minutes to 6

3. Write the time using the words *to* or *after*.

a)



b)



c)



4. Kate took brownies out of the oven at this time.



The brownies were in the oven for 1 hour.

What time did Kate put the brownies in the oven? _____

5. Lang started soccer practice at 2:30.

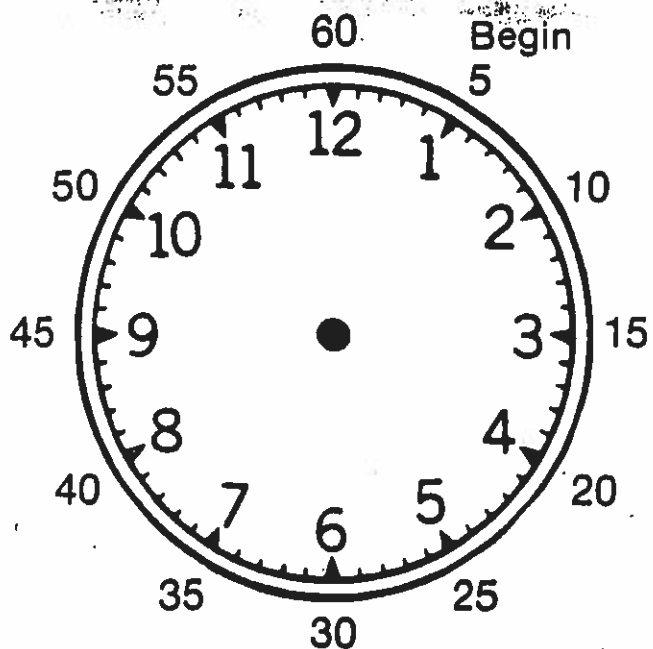
He finished 2 hours later.

Show the time Lang finished.



COUNT THE MINUTES

Count by 5's.
Find out how
many minutes
each clock
numeral measures.



Tell the times.

<p>1.</p> <p>10 minutes past ____</p>	<p>2.</p> <p>20 minutes past ____</p>	<p>3.</p> <p>40 minutes past ____</p>
<p>4.</p> <p>50 minutes past ____</p>	<p>5.</p> <p>30 minutes past ____</p>	<p>6.</p> <p>5 minutes past ____</p>

8.4 Telling Time to 1 Minute Page 1

Student Book pages 272–275

GOAL

Read clock times to the nearest minute on different kinds of clocks.

Problem

Luis has a digital clock in his bedroom.

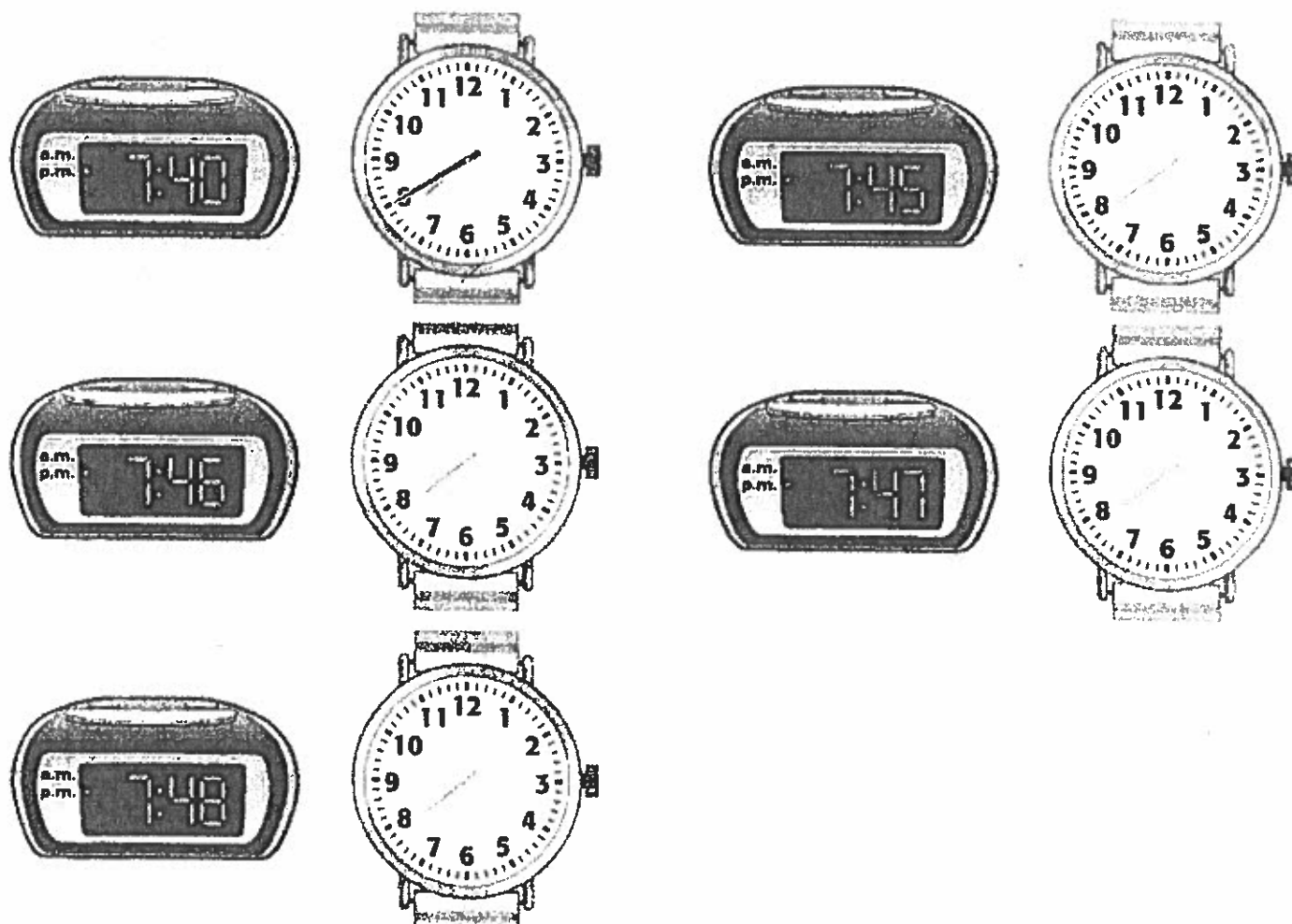
He wants to use his digital clock to set the time on his watch.

 Where should Luis set the hands on his watch?

Look at the digital times.

Draw the minute hands on the watches to show the times.

The first one has been done for you.



L Name: _____ Date: _____

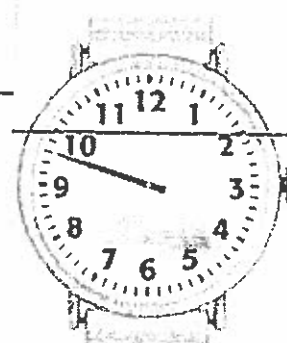
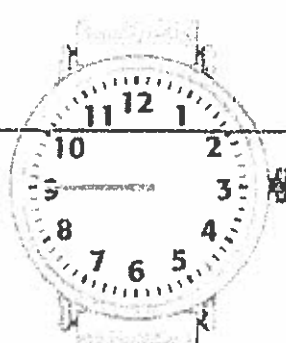
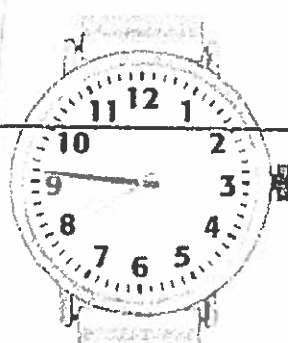
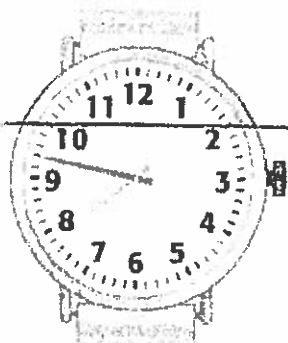
8.4 Telling Time to 1 Minute Page 2

Reflecting

How does Luis's watch show that the time is almost 8:00?

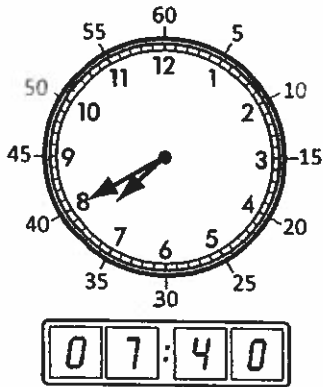
~~How does the digital clock show that the time is almost 8:00?~~

How does a digital clock help you to know that there are 60 minutes in one hour?



Time!

Telling time – digital



In digital time, when it is later than half past the hour, we can tell how long it is until the next o'clock.

This time says 7:40 which means after another 20 minutes it will be 8:00. This makes sense because there are 60 minutes in an hour. $40 + 20 = 60$

$$7:40 + 20 \text{ minutes} = 8:00$$

4 How many minutes until the next o'clock?

a $6:50 + \underline{\hspace{1cm}}$ minutes = 7:00

b $2:40 + \underline{\hspace{1cm}}$ minutes = 3:00

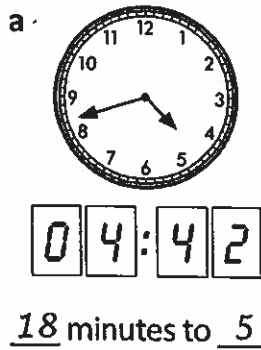
c $1:35 + \underline{\hspace{1cm}}$ minutes = 2:00

d $9:45 + \underline{\hspace{1cm}}$ minutes = 10:00

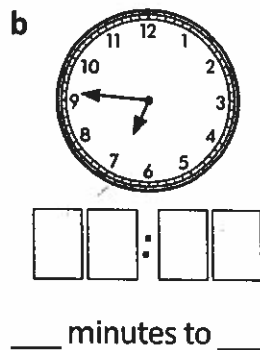
e $4:55 + \underline{\hspace{1cm}}$ minutes = 5:00

f $10:50 + \underline{\hspace{1cm}}$ minutes = 11:00

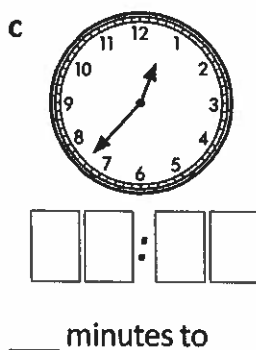
5 Write the times shown on the clocks in digital form then calculate how many minutes until the next hour. The first one has been done for you.



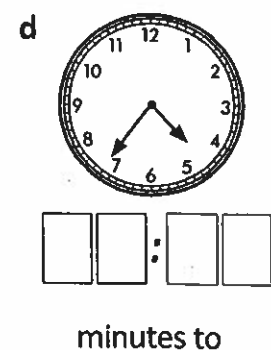
18 minutes to 5



 minutes to

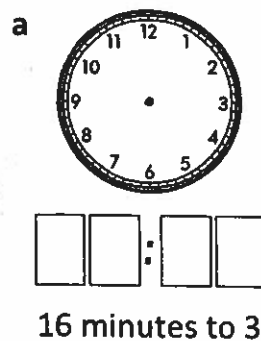


 minutes to

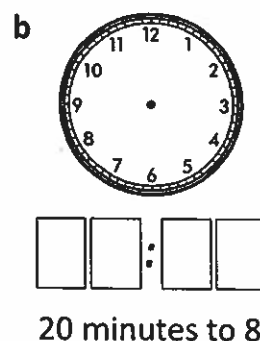


 minutes to

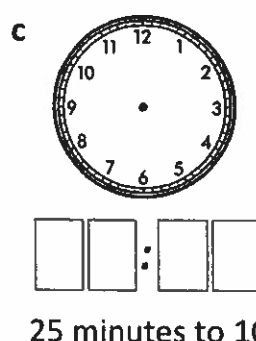
6 Read how many minutes there are until the next hour. Show this time on the clock face and in digital form.



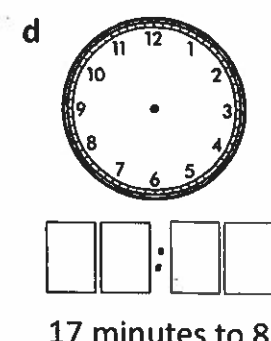
16 minutes to 3



20 minutes to 8



25 minutes to 10



17 minutes to 8

Telling time – digital

Digital time is always read as minutes after the hour.
This digital time could be read as 24 minutes past 8
or eight twenty four.



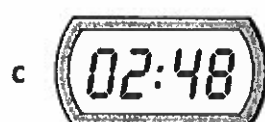
1 Write the times that these digital clocks are showing:



___ past ___



___ past ___



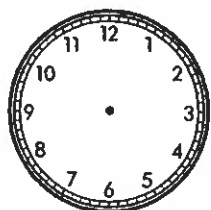
___ past ___



___ past ___

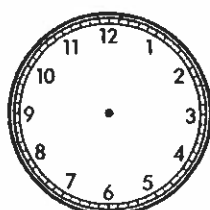
2 Draw the times on the clock faces and show the digital time below:

a half past nine



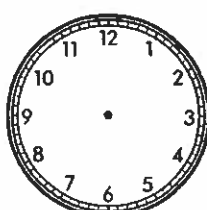
:

b twenty after one



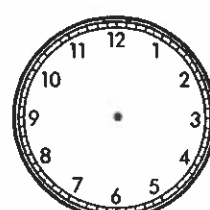
:

c ten after four



:

d quarter after six



:

3 Complete the table to match how we say digital time to what it means:

	Digital time	How we say it	What it means
a		six oh nine	
b			
c			
d			



The time is
eight fifty.



Chapter 8

Lesson 4

Telling Time to 1 Minute

GOAL

Read clock times to the nearest minute on different kinds of clocks.

1. Show the time on each clock.

a) 3:32



b) 9:17



c) 5:59



2. Write the time using numbers.

a) _____



b) _____



c) _____



3. Write the time in 2 ways using words.
The first one is done for you.

a) 10:22 ten twenty-two, or twenty-two minutes after ten

b) 1:14 _____

c) 4:23 _____

d) 7:18 _____

4. Write the time using words that tell the number of minutes to the next hour. The first one is done for you.

a) 8:46 fourteen minutes to nine

b) 5:58 _____

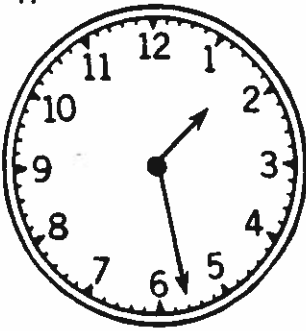
c) 1:49 _____

d) 11:35 _____

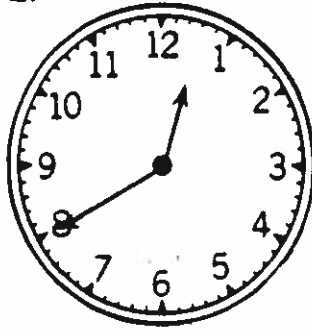
TELL THE TIME

Write the time each clock shows.

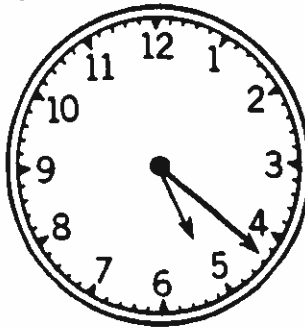
1.



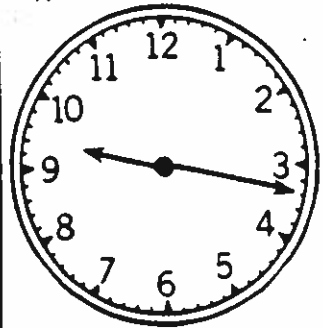
2.



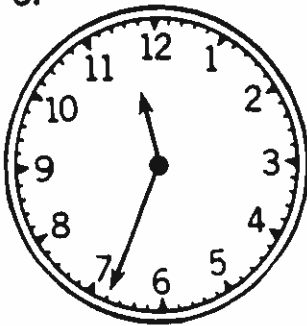
3.



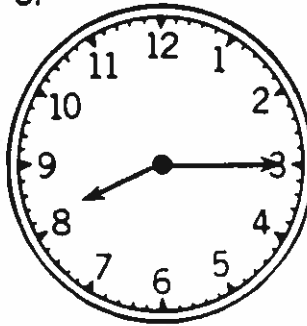
4.



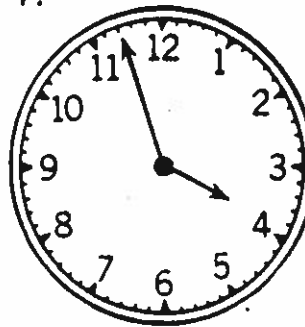
5.



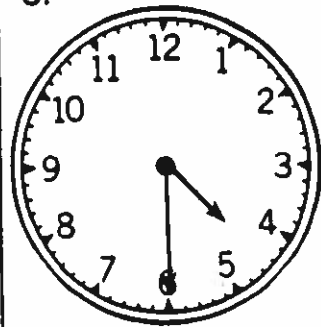
6.



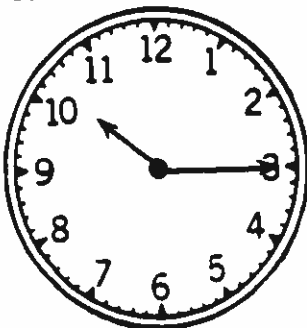
7.



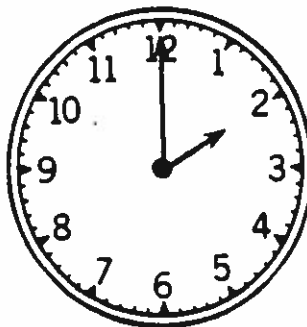
8.



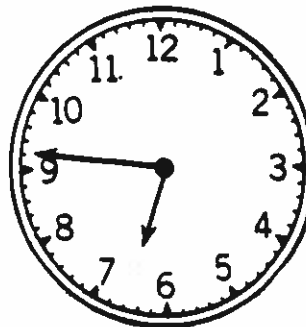
9.



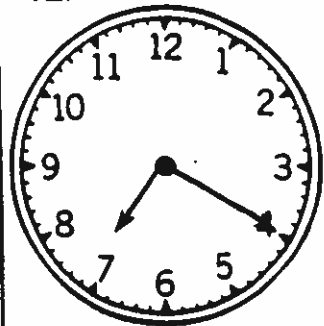
10.



11.



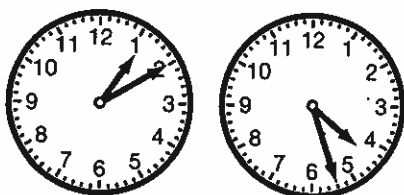
12.



Time in Minutes

Goal Find out how long an event takes.

1. Lata went to her friend's house to play on a Saturday afternoon. The clocks show the time when she left and when she returned home.



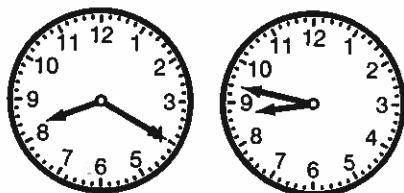
a) What time did she leave? _____

b) What time did she return? _____

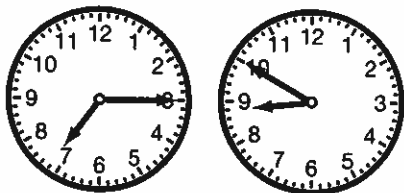
c) How long was she away? _____

2. How long does each event take?

a) walking to school _____



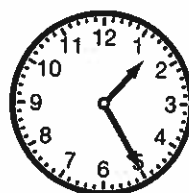
b) watching a movie _____



3. Bill is playing soccer in his backyard with friends. They start the game at 4:05 and play for 45 minutes. Bill needs to be in the house by 5:00. Will he make it? Explain.

At-Home Help

This clock shows when Alex arrived at his grandmother's house.



This clock shows when Alex left his grandmother's house.



He was at his grandmother's for 1 hour 25 minutes, or 85 minutes.



From 1:25 to 2:25 is 1 hour, or 60 minutes.

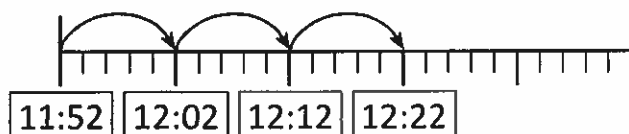
From 2:25 to 2:50 is 25 minutes. So the total time was 1 hour 25 minutes, or 85 minutes.

Measuring time – time trials

We can use a timeline to help us with elapsed time problems.

Problem: Robbie got on the bus at 11:52 am and got off 30 minutes later.
What time was it when Robbie got off the bus?

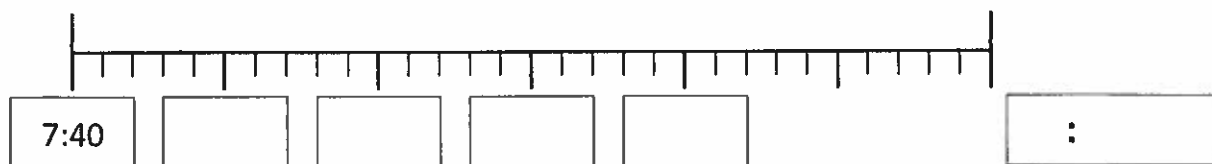
- Steps:** 1. Write the start time in the first box.
2. Use the timeline to count on in minutes.
Each large marker is 10 minutes and each small marker is 2 minutes.



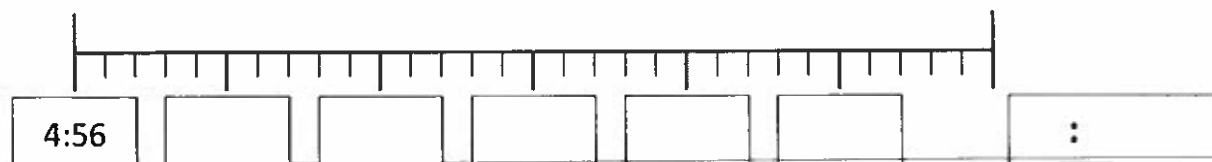
Answer: 12:22 pm

4 Use the timeline for each elapsed time problem:

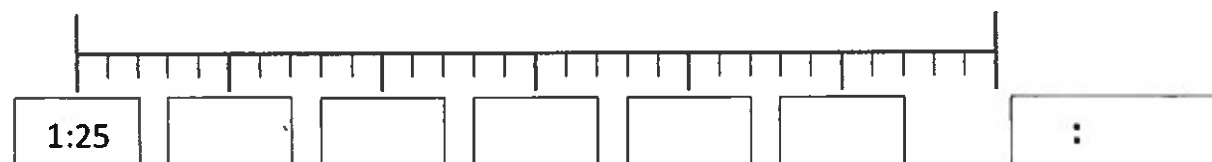
- a Rex went for a jog at the park. He headed out at 7:40 am and jogged for 45 minutes. What time did he finish jogging?



- b Jamie watched a TV show that started at 4:56 pm and went for 54 minutes. What time did the TV show finish?

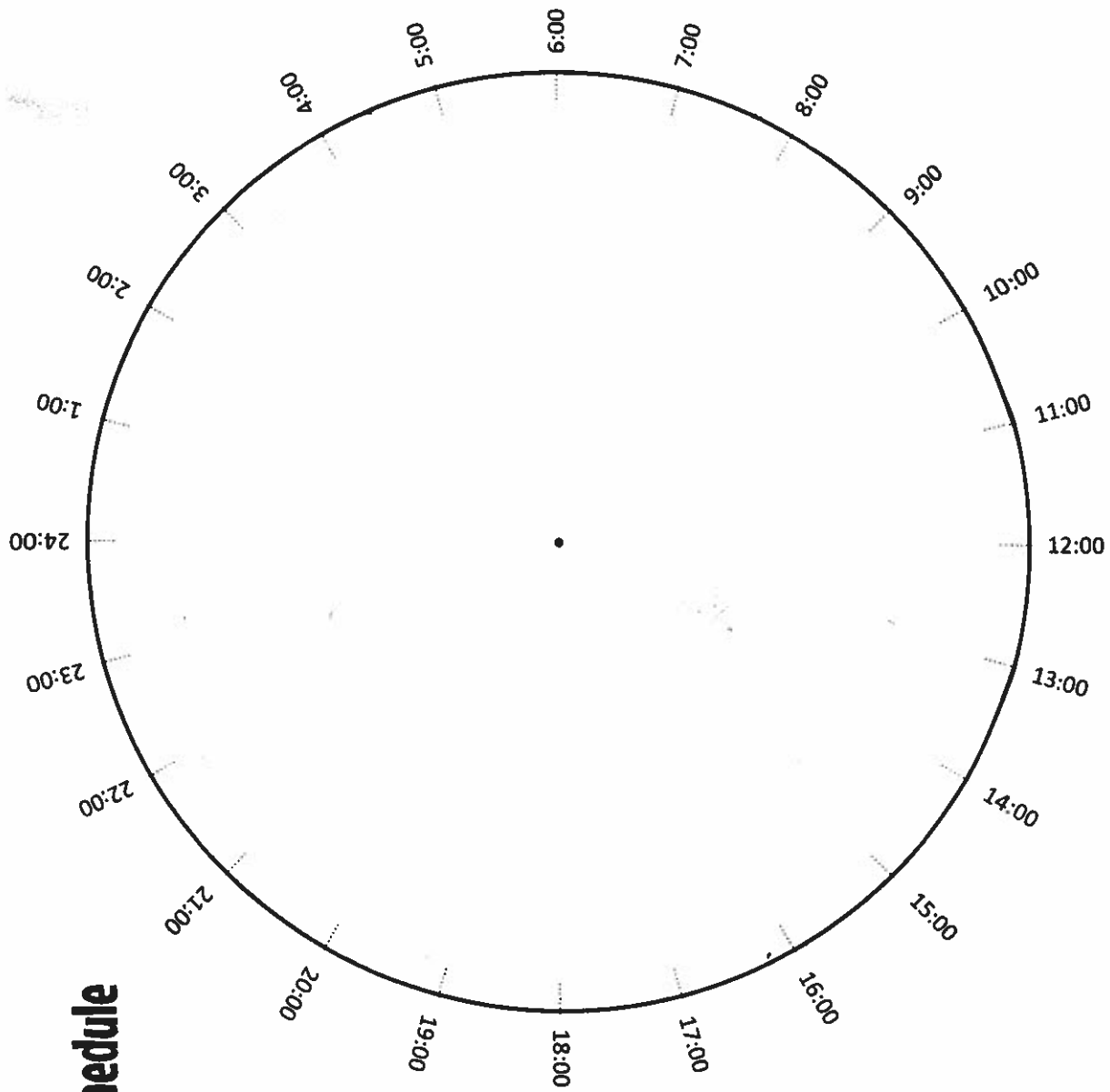
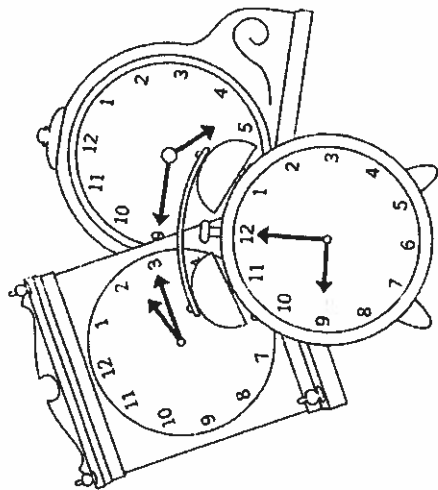


- c Naomi made a casserole. She put it in the oven at 1:25 pm and set the timer for 55 minutes. What time did the timer buzz?



S. _____

24-Hour Schedule



- I get up at _____
- I go to bed at _____
- I sleep for _____
- My school starts at _____
- My school ends at _____
- I am at school for _____

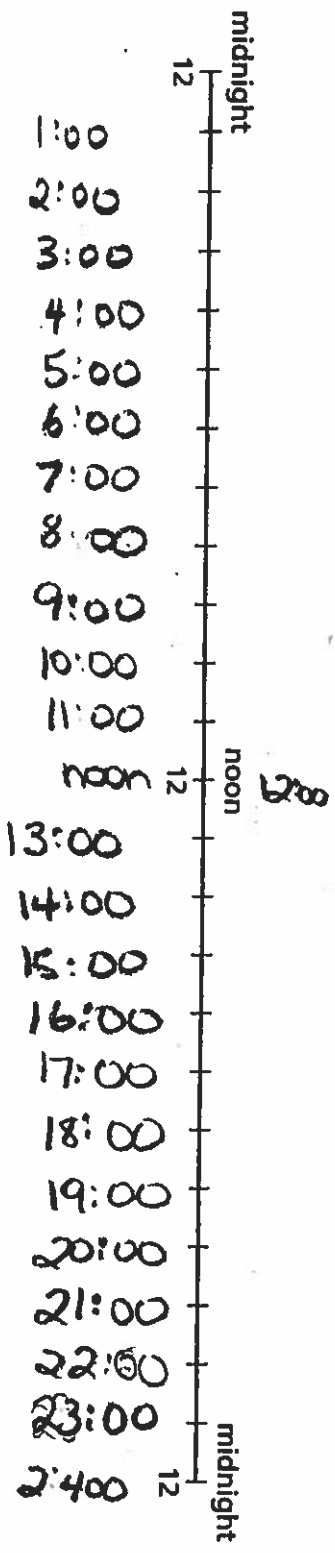
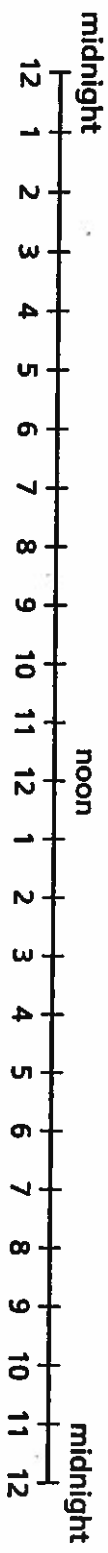
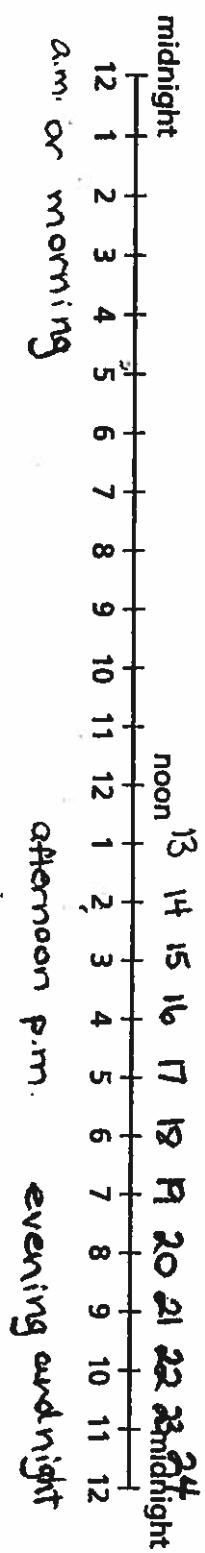
Name: _____

Date: _____

Timelines

Lesson 1: Telling Time to the Hour

STUDENT BOOK PAGES 262-264



Standard 1 24 hour clocks

8.5 Writing Dates Page 1

Student Book pages 276–278

GOAL

Write **numeric dates**.

numeric date

A way of writing dates with numbers and no words. One way is year-month-day; for example, 2002-08-15.

Problem

Diane wants to write the dates her cousins were born. She wants to write their birthdays as numeric dates.

 How can Diane write the dates for all 4 of her cousins?

Diane's Cousins' Birthdays

Jack: July 10, 1998

Kim: February 9, 2003

Taylor: October 24, 2000

Lisa: December 15, 1995

Step 1: Every month has a number.

Complete the chart showing the number for each month.

Name of month	Number given to month
January	01
February	02
March	
April	
May	
June	
July	
August	
September	
October	10
November	
December	



Name: _____ Date: _____

8.5 Writing Dates Page 2

Step 2: Rewrite the dates of Diane's cousins' birthdays.

Follow the order in the example, using numbers instead of words for the months.

Example: If a birthday was on May 18, 2001, you would write it like this:

2001 - 05 - 18
Year - Month - Day

Write the birthdays.

Jack: _____ - _____ - _____
 Year Month Day

Kim: _____ - _____ - _____
 Year Month Day

Taylor: _____ - _____ - _____
 Year Month Day

Lisa: _____ - _____ - _____
 Year Month Day

Reflecting

Which one of Diane's cousins is the oldest? How did you figure it out?

Chapter 8
Lesson 5

Writing Dates and Times

GOAL

Write numeric dates and 24-hour times.

1. Write each calendar date using numeric form.
The first one is done for you.

- a) July 24, 2001 2001-07-24
b) January 2, 1997 _____
c) March 17, 2006 _____
d) September 30, 1986 _____
e) June 5, 2055 _____

At-Home Help

A **numeric date** is a way of writing a date with numbers and no words. One way is year-month-day, for example, 2002-08-15.

24-hour times are based on a 24-hour clock that starts at 00:00 (midnight) and ends at 23:59 (the last minute before midnight). They don't use a.m. or p.m. For example:

1:00 a.m. is 01:00
1:00 p.m. is 13:00
7:45 a.m. is 07:45
7:45 p.m. is 19:45

2. Write each numeric date using calendar form.

- a) 2007-02-13 _____
b) 1999-11-29 _____
c) 2005-08-01 _____
d) 1984-04-22 _____
e) 2000-12-25 _____

3. Write each time using a.m. or p.m.

- a) 03:15 _____ c) 13:00 _____ e) 18:45 _____
b) 11:30 _____ d) 09:00 _____ f) 22:59 _____

4. Write each time using 24-hour form.

- a) 10:30 a.m. _____ c) 7:00 p.m. _____ e) 2:15 a.m. _____
b) 5:00 a.m. _____ d) 11:10 p.m. _____ f) 6:43 p.m. _____

A4-22: Calendars

ADHER:

Students will each need two copies of the Calendar blackline master from the Teacher's Guide.

Months with 31 days: January, March, May, July, August, October, December.

Months with 30 days: April, June, September, November.

Months with 28 days: February (during a leap year, February has 29 days).

1. a) Write the title "December" on a blank calendar. Write the numbers of the days so that December 1st is a Wednesday.
 b) Ronā has guitar lessons every fourth day of the month starting on December 4th. Mark the days when she has a guitar lesson with an 'X.'
2. April 1st is a Sunday.
 Huan receives an allowance of \$5 every Tuesday.
 How much money has he received by the end of the month? _____
3. The first day of October is a Tuesday.
 Alex has piano lessons every 6th day of the month starting on October 6th.
 Dan has lessons every Friday.
 On which dates do they have lessons on the same day? _____
4. Fill in the calendar for any month you choose. Shade the numbers along any column of the calendar.



Name of Month: _____

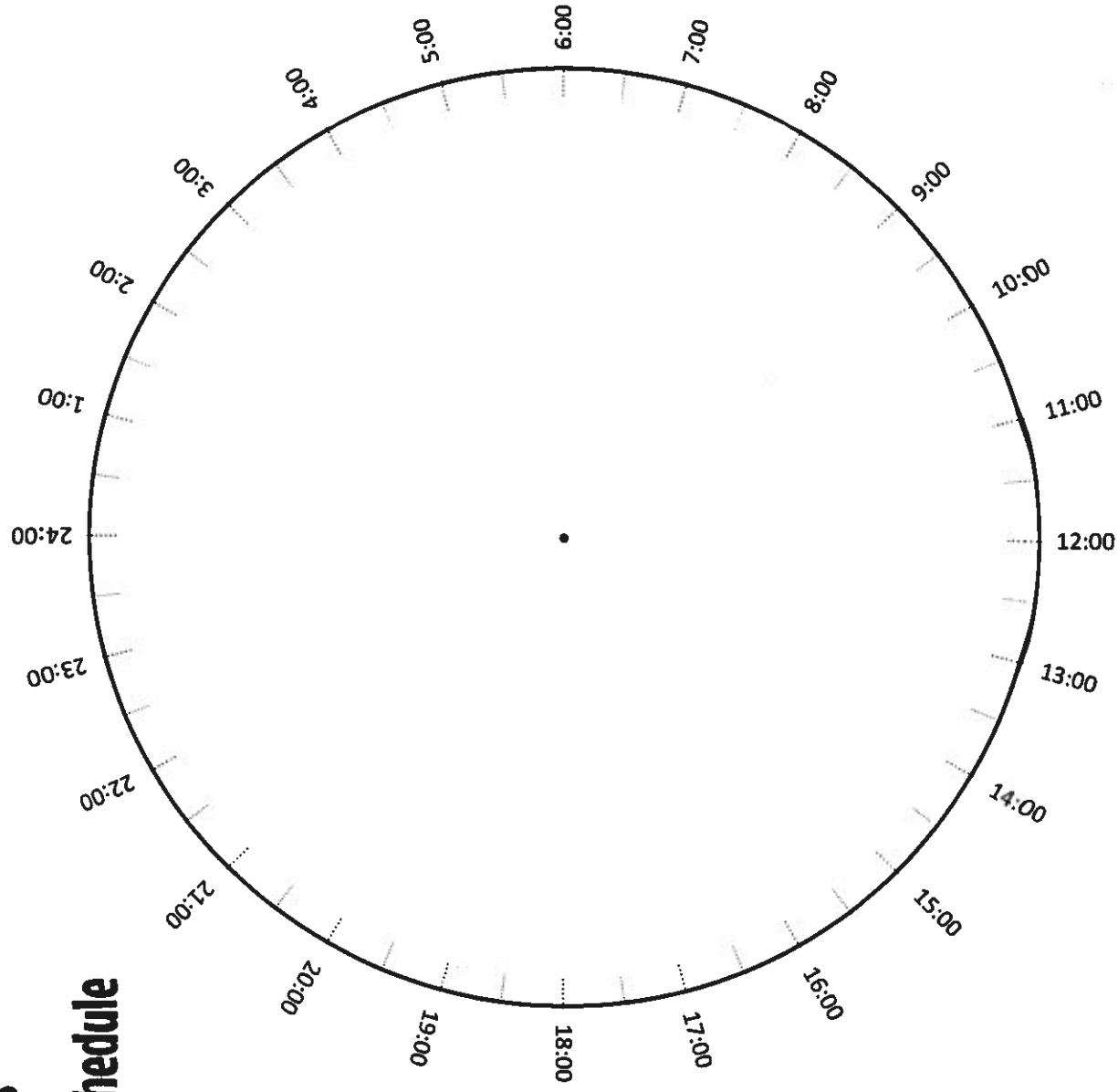
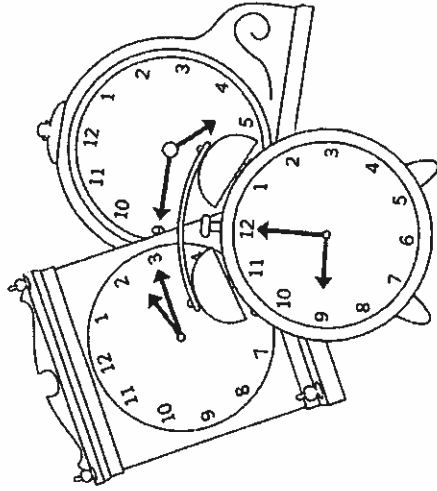
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

- a) What pattern do you see? Write a rule for the pattern.

- b) Look at any other column. How do you explain what you see?

S. _____

24-Hour Schedule



I get up at _____.

I go to bed at _____.

I sleep for _____.

My school starts at _____.

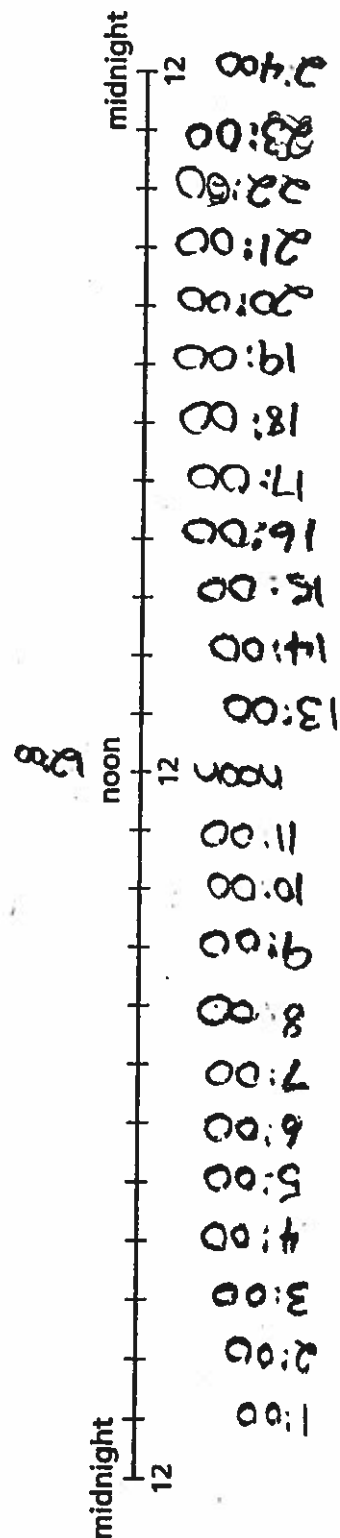
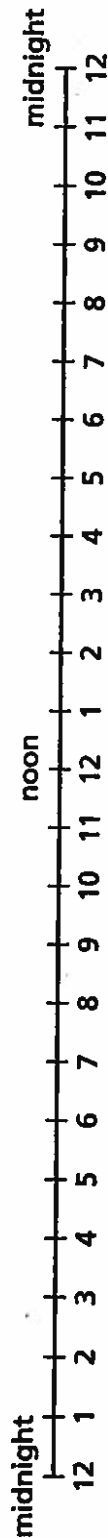
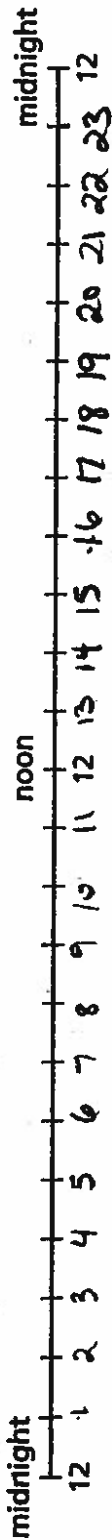
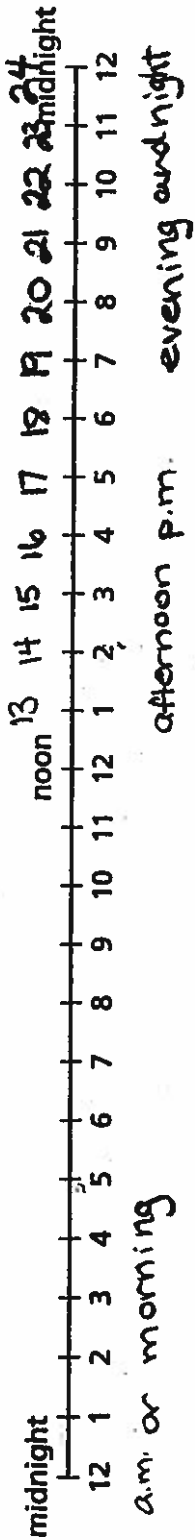
My school ends at _____.

I am at school for _____.

Timelines

Lesson 1: Telling Time to the Hour

STUDENT BOOK PAGES 262-264



Standard 1, 24 hour clocks