

Chapter 6

Name _____

Measuring Time

School Schedule

You need

- index cards
- crayons or markers

Discuss the activities you do in school.

STEP 1 Describing Activities

What activities happen every day in school?



STEP 2 Ordering Activities

Draw each activity on a card. In what order do you do the activities in school? Put the cards in order starting with the first activity of the day.

STEP 3 Thinking About Time

Which activities seem to take a long time?

Which activities seem to take a short time?

Investigation





School-Home Connection

Dear Family,

Today we started Chapter 6 of *Think Math!* In this chapter, I will learn to read time. I will also solve problems involving time. There are NOTES on the Lesson Activity Book pages to explain what I am learning every day.

Here are some activities for us to do together at home. These activities will help me understand concepts related to time.

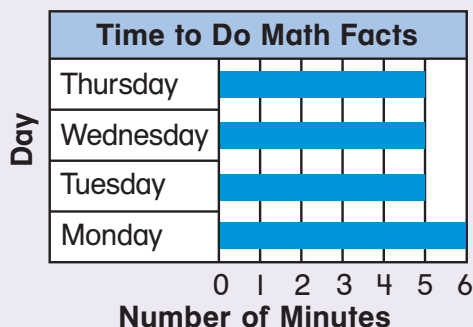
Love,

Family Fun

How Much in 5 Minutes?

Have your child complete activities that take 5 minutes.

- Ask your child, "What do you think you could do in 5 minutes?" Make a list. Possibilities include: make my bed; write the alphabet; and practice my math facts.
- Ask your child to choose one of the activities on the list to do as you time it. How long did it take?
- Repeat the activity for several days in a row. Together, graph the amount of time the activity takes every day.



What Time Is It?

Work with your child to practice telling time.

- Discuss with your child the activities your family does every day. For example, get up in the morning, get washed and dressed, eat meals, come home, go to bed, and so on.
- Whenever a new activity begins or ends, ask your child, "What time is it?" Have your child read a clock or a watch to tell the time. Repeat this activity throughout the day.



It's 7:00. Time to wake up!

Exploring Time

NCTM Standards 4, 5, 6, 7, 8, 9, 10

1. How many smiley faces can you draw in 10 seconds?
Have a partner time 10 seconds as you draw.



How many smiley faces did you draw? _____ faces

2. How many smiley faces can you draw in 1 minute?
Have a partner time 1 minute as you draw.



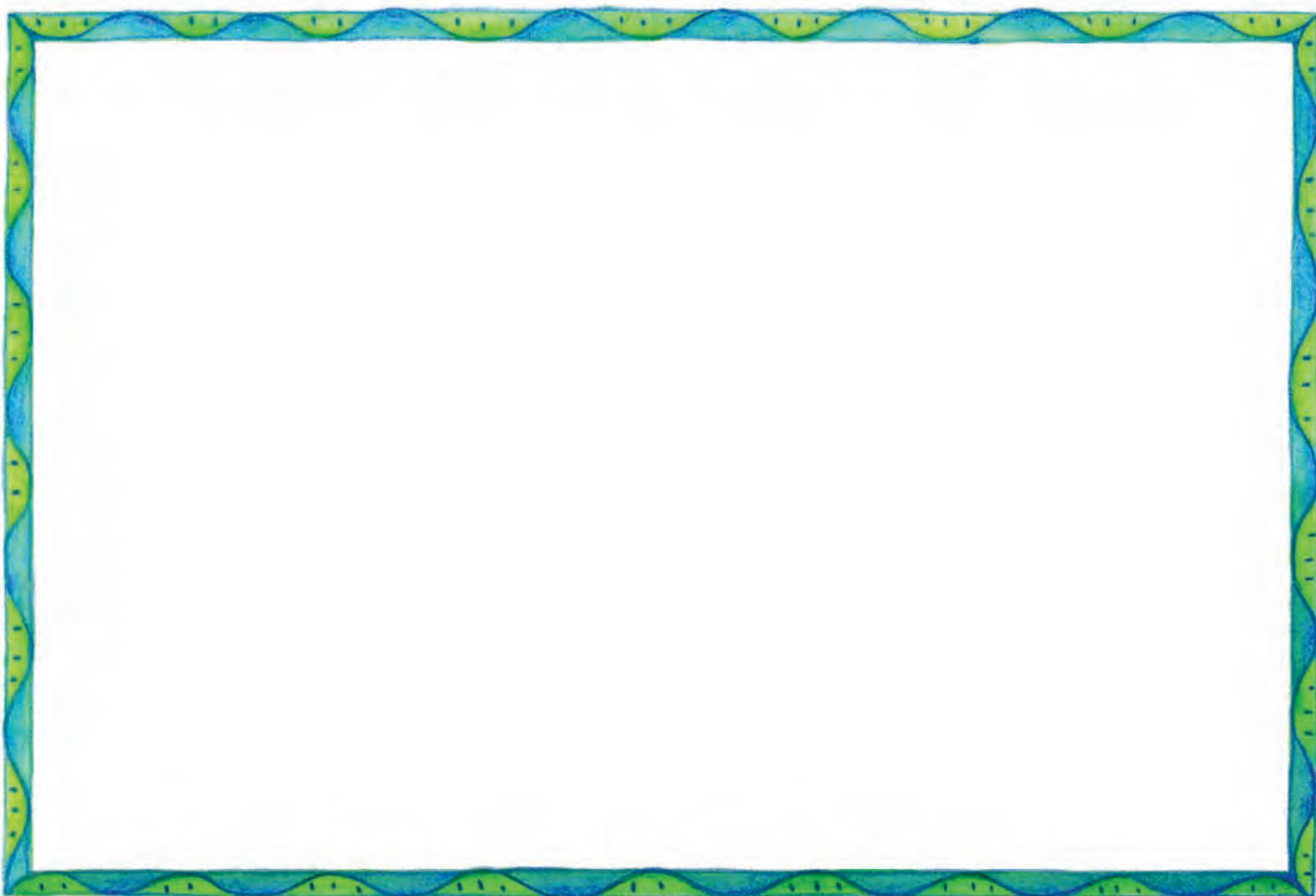
How many smiley faces did you draw? _____ faces




NOTE: Your child is learning different units of time including seconds, minutes, and hours.



3. Draw a picture of something you do that takes about 1 hour.



 4. Does an hour seem long or short to you? Tell why.

Challenge

Circle the better estimate for each time.

5. About how long does it take to say the alphabet?

1 second 1 minute

6. About how long does it take to play a game of soccer?

1 minute 1 hour

Minutes in an Hour

NCTM Standards 4, 6, 8, 10

What time is it?

1.



2.



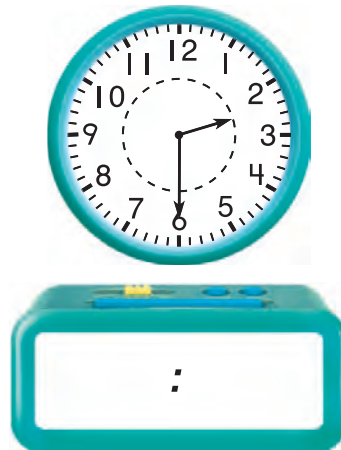
3.



4.



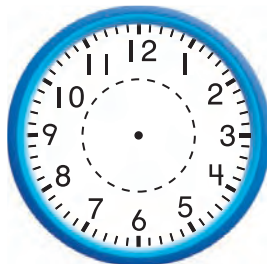
5.



6.



7. Show any time to the half hour. Draw the clock hands and write the time.



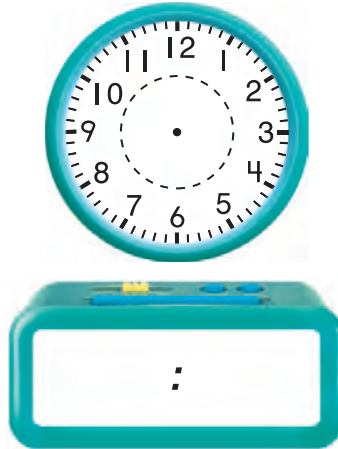
NOTE: Your child is learning to tell time to the hour and half hour. Ask your child to read the clock when the time is on the hour.

What is missing?

8.



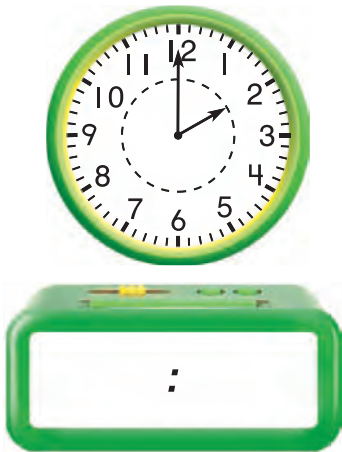
1 hour later



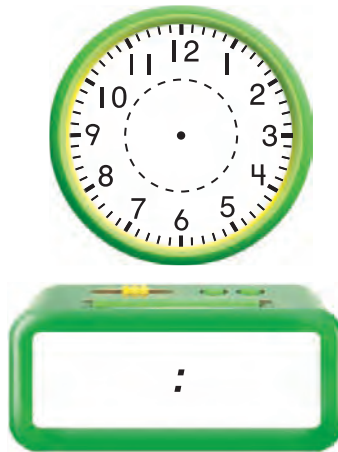
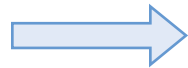
Draw the clock hands.



9.



2 hours later



Problem Solving

10. A machine makes 1 toy every minute. How many toys can the machine make in 25 minutes?

_____ toys

11. A machine makes 2 boxes every minute.
How many boxes can the machine make in
1 hour? Explain your answer.

_____ boxes

Telling Time to 10 Minutes

NCTM Standards 3, 4, 6, 7, 8, 9, 10

What time is it?

1.



2.



3.



4.



20 minutes after 8

5.



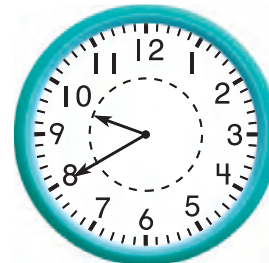
minutes after

6.



minutes before

7.

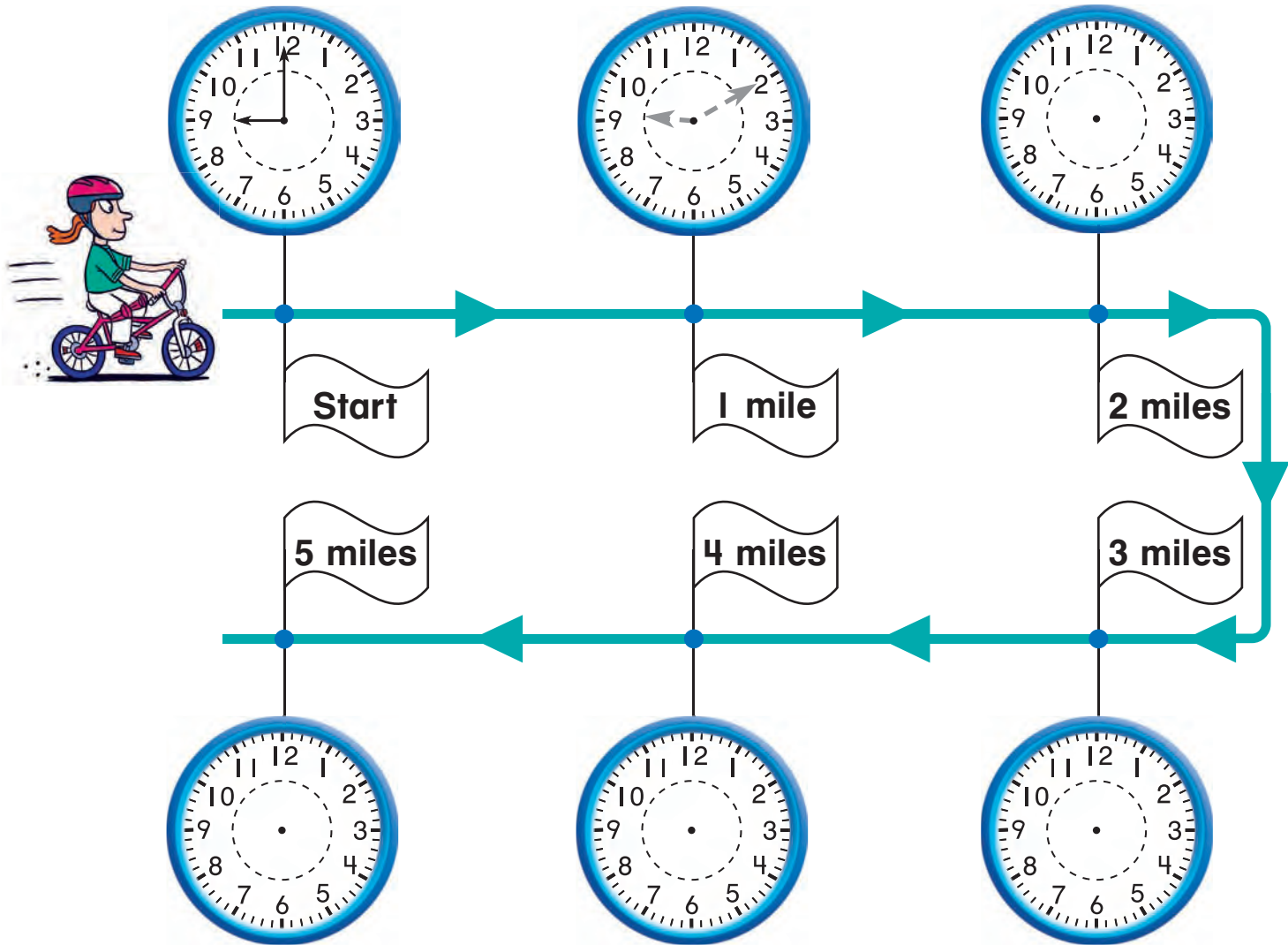


minutes before



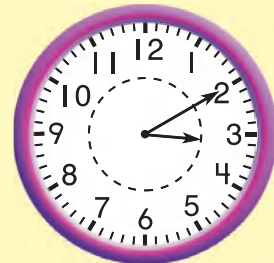
NOTE: Your child is learning to tell time to 10 minutes and describe the time as before and after the hour.

8. Tina travels 1 mile every 10 minutes. What time will she get to each mile flag? Draw the clock hands.



Problem Solving

9. Dana starts her homework at 3:10. It takes 20 minutes to finish. What time is she done? _____
Use words, numbers, or pictures to explain.



How Far? How Fast?

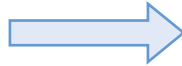
NCTM Standards 3, 4, 6, 8, 9, 10

What is missing?

1.



30 minutes later



2.



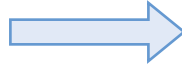
half an hour later



3.



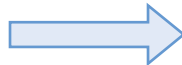
1 hour later



4.



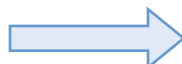
1 and a half hours later



5. Make your own.



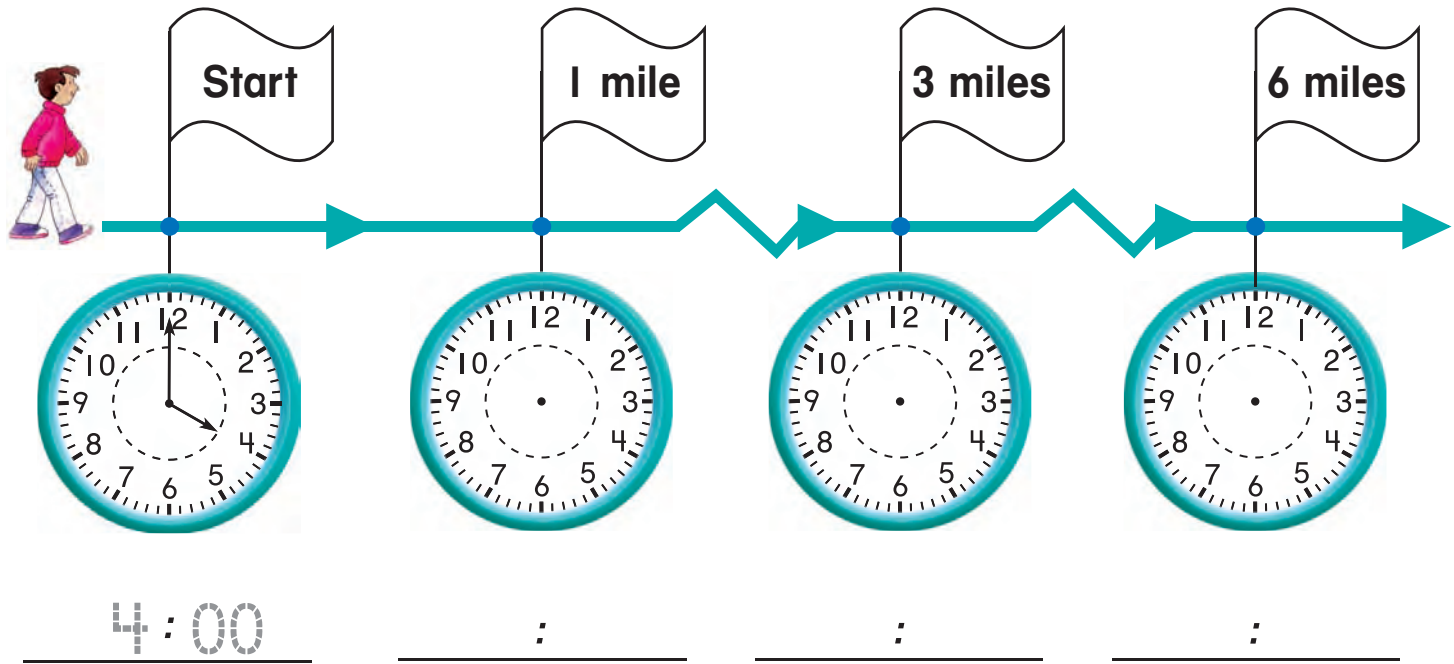
2 and a half hours later



NOTE: Your child is learning to read and write time. Ask your child what time it will be in 1 hour.



6. Nick walks 2 miles in 1 hour. He starts at 4:00.
What time will he get to each mile flag?



7. How can you write 8:15 in words? Write it in two different ways.

Problem Solving

8. A movie starts at 6:50. It is 2 and a half hours long. What time will the movie end? _____ : _____
Use words, numbers, or pictures to explain.



Telling Time to 5 Minutes

NCTM Standards 4, 8, 9, 10

Exactly what time is it?

1.



2.



3.



4.



5.

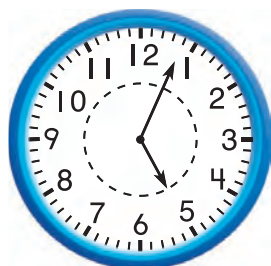


6.



About what time is it? Circle the closer time.

7.



5:00

5:30

8.



1:30

2:00

9.



7:30

8:00



NOTE: Your child is learning to tell time to 5 minutes and to estimate time. At a time right after the hour, ask your child, "About what time is it?"

What is missing?

10.



11.



Challenge

12. What is missing?

5 minutes earlier			2:15	4:05	
Time	9:30	11:15	2:20		
15 minutes later		11:30			5:15

Telling Time to the Minute

NCTM Standards 1, 4, 6, 8, 9, 10

What time is it?

1.



2.



Draw the clock hands.

3.



4.



5.



6.



NOTE: Your child is learning to tell time to the minute. Ask your child to tell the exact time several times during the day.



What landmark on the clock can help you find the time? Write the landmark and the exact time.

7.



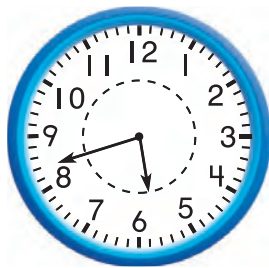
landmark time 8:30
exact time 8:28

8.



landmark time _____:
exact time _____:

9.



landmark time _____:
exact time _____:

10.

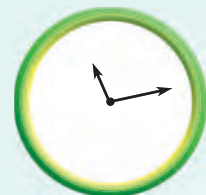


landmark time _____:
exact time _____:

11. In Problem 9, how did you use the landmark to find the exact time? _____

Challenge

12. What time is it? How do you know? _____:



Calendar and Ordinal Numbers

NCTM Standards 1, 4, 6, 8, 9, 10

1. Write the name of the month and the year.
Write the dates in the calendar.

_____, _____

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

2. How many days are in this month? _____ days
3. What day is the first of the month? _____
4. What day is the nineteenth of the month? _____
5. What is the date of the third Monday? _____



NOTE: Your child is learning to read a calendar and work with ordinal numbers. Together, talk about the dates of holidays and events this month.

What floor is it?

6. Draw an X on the box for the tenth floor.

7. Color the box for the fifth floor green.

8. Color the box for the twelfth floor blue.

9. Write the number in the top floor.

10. Chloe got on the elevator at the first floor. The elevator went up 7 floors. On what floor was Chloe then?

_____ floor

11. Brad got on the elevator at the twelfth floor. The elevator went down 6 floors. On what floor was Brad then?

_____ floor



12. Write and solve your own elevator problem.

The boxes on the side are elevator floors.



X
1st floor

Challenge

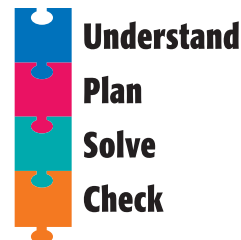
13. Diego got in the elevator on the first floor. The elevator went up 8 floors. Then it went down 3 floors and then up 5 floors. On what floor was Diego then?

_____ floor

Problem Solving Strategy

Look for a Pattern

NCTM Standards 1, 2, 3, 4, 6, 7, 8, 9, 10



1. A rocket travels 10 miles in 2 minutes.
The rocket lifts off at 7:00. How far has
the rocket traveled by 7:20? _____ miles

Explain how you found your answer. _____

2. The first four soccer shirts are numbered
1, 3, 5, and 7. If this pattern continues, what
would be the number on the eighth shirt? _____

Explain. _____

3. A snail travels 1 foot every 5 minutes.
He starts crawling at 9:30. What time
will it be when the snail travels 5 feet? _____ :

Explain. _____



NOTE: Your child is exploring different ways to solve problems. Sometimes using the strategy, *look for a pattern*, is an efficient way to solve a problem.

Problem Solving Test Prep

1. Sean finished baseball practice at 6:00. The practice was one and a half hours long. What time did practice start?

Ⓐ 4:00

Ⓑ 4:30

Ⓒ 5:30

Ⓓ 7:30

2. Faith made 18 muffins. Ella made 3 less muffins than Faith. How many muffins did they make altogether?

Ⓐ 15 muffins

Ⓑ 21 muffins

Ⓒ 30 muffins

Ⓓ 33 muffins



Show What You Know

3. Each tricycle has 3 wheels. How many wheels are there on 6 tricycles?

tricycles	1					
wheels	3					

_____ wheels

Explain how you found the answer.

4. There are 4 children in line. Sam is between Clare and Liddy. Ben is last. Liddy is next to Ben. Who is first in line?

Explain your answer.

Review/Assessment

NCTM Standards 1, 2, 4, 6, 7, 8, 9, 10

1. Draw a picture of something you do that takes about 1 minute.

Lesson 1

What time is it? Lessons 2, 3

2.



3.



4.



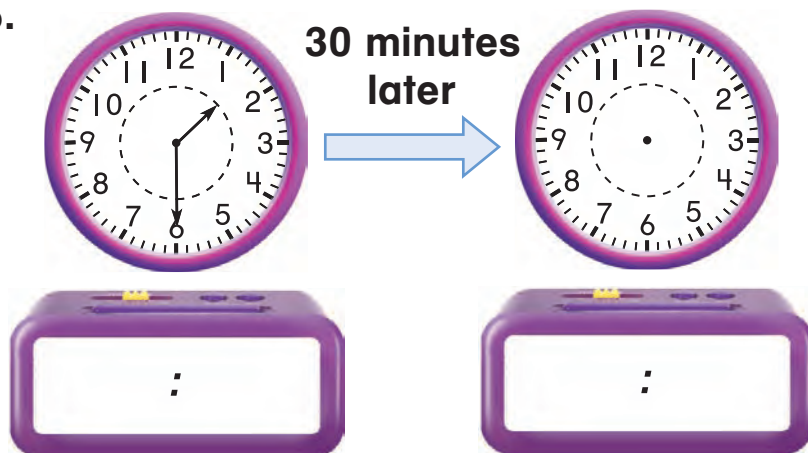
5.



_____ minutes before _____

What is missing? Lesson 4

6.



About what time is it? Circle the closer time. Lessons 5, 6

7.



11:30

12:00

8.

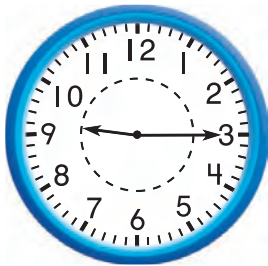


3:45

4:00

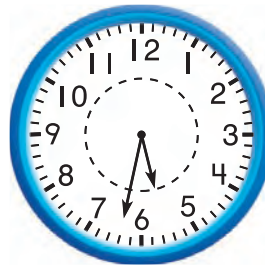
Exactly what time is it? Lessons 5, 6

9.



:

10.



:

Solve. Lesson 7

11. Lou got on the elevator at the eleventh floor. The elevator went down 6 floors. On what floor was Lou then?

_____ floor

Problem Solving Lesson 8

12. A bus travels 1 mile in 1 minute. The bus leaves the station at 6:15. How far has the bus traveled by 6:25?

_____ miles

Explain how you found your answer. _____
