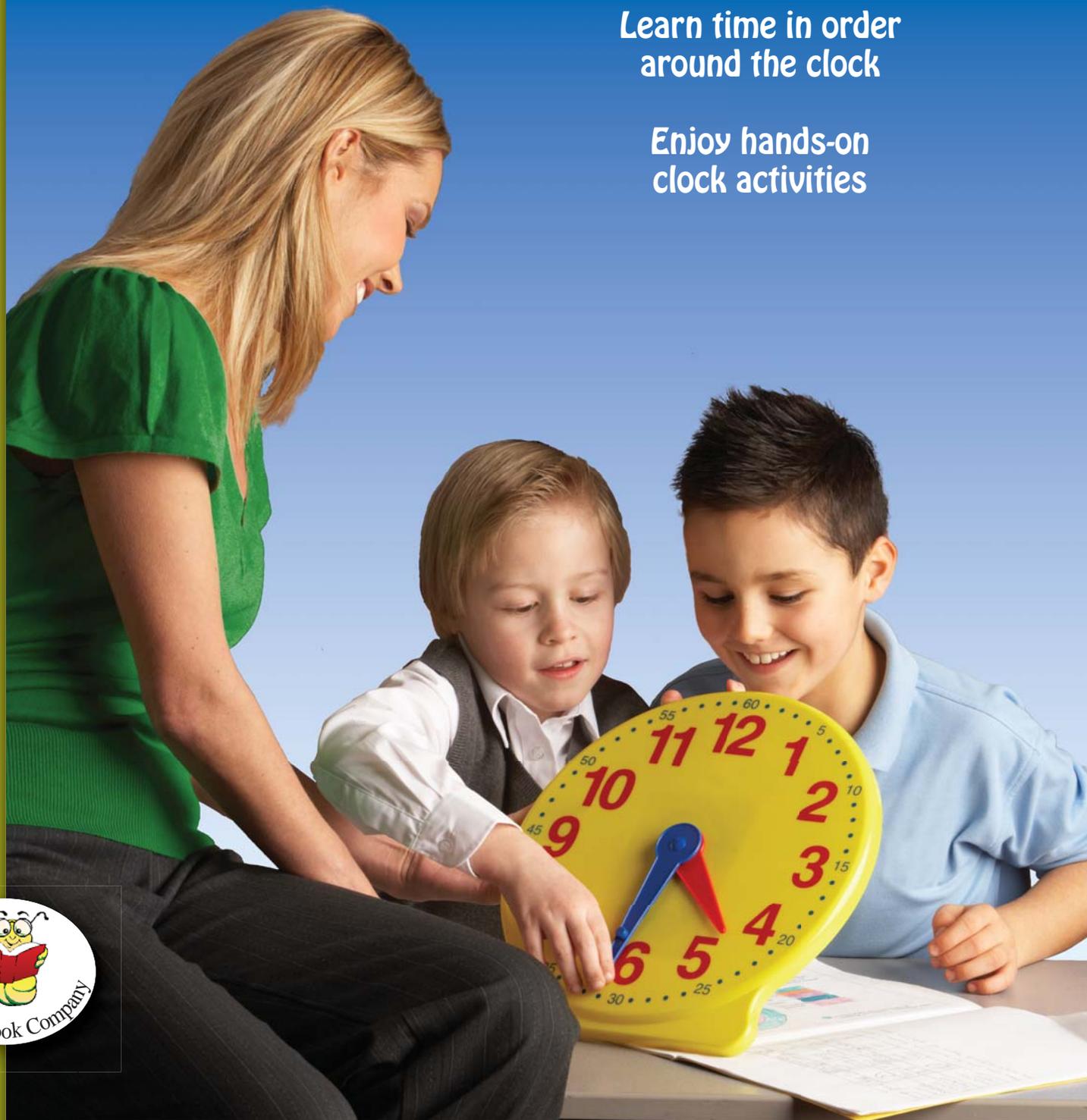


Step-by-Step Math: Telling Time

Learn time in order
around the clock

Enjoy hands-on
clock activities



Step-by-Step Math:

Telling Time

by Angela M. Ankers, M.Ed.
Jodi E. Yarusinsky

Summerbook Company
Hartsville, South Carolina

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How to Use This Book

Cut out the clock at the back of the book and assemble it according to the instructions. Use it frequently throughout the book.

PAY ATTENTION TO THE POSITION OF THE HOUR HAND both on the clocks in the book and in real life. As students move the hands on the clock or draw hands on clocks, do not allow the hour hand to remain pointing directly to the hour when the student makes other times on a clock. The hour hand should be positioned as closely as possible to where the hour hand would be on a functioning clock.

If at all possible, obtain a non-digital clock and allow the student to turn the knob and watch the hands go around through the hours.

A Note from the Author

When I taught first grade, most math books taught time to the hour, then the half hour, then a quarter after, a quarter to and then all the other times. My students, who were accustomed to digital clocks, were confused as the minute hand seemed to jump all around the clock and the hour hand apparently moved randomly in the space between numbers.

After several years of difficulty and frustration, I decided to teach telling time in order around the clock. I made sure everyone could count by fives easily. We started with the hour, then five after, etc. By the time we were at twenty after, most students had caught on and could tell almost any time.

The biggest problem was a time such as 8:55 where the hour hand was almost on the nine. I explained that in five minutes it would be 9:00, but since it wasn't 9:00 yet, it had to still be eight something.

Hopefully, the order and logical progression of the pages in this book will make learning to tell time very easy for those you are teaching.

Sincerely,

Angela Ankers

Telling Time

Time

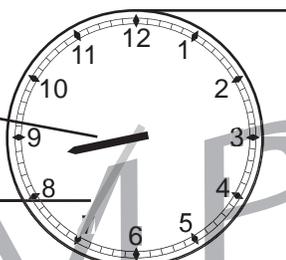
Each day has been divided into hours. There are *24 hours* in a day. Each hour has been divided into minutes. There are *60 minutes* in an hour.

Parts of a Clock

The part of the clock that has the numbers is called the *face* of the clock. The pieces that go around the clock's face and point to the numbers are called the *hands*. The smaller or shorter hand tells the hours. The larger or longer hand tells the minutes.

short hand, also called
hour hand or little hand

long hand, also called
minute hand or big hand



Finish matching the names for each hand.

long hand

minute hand

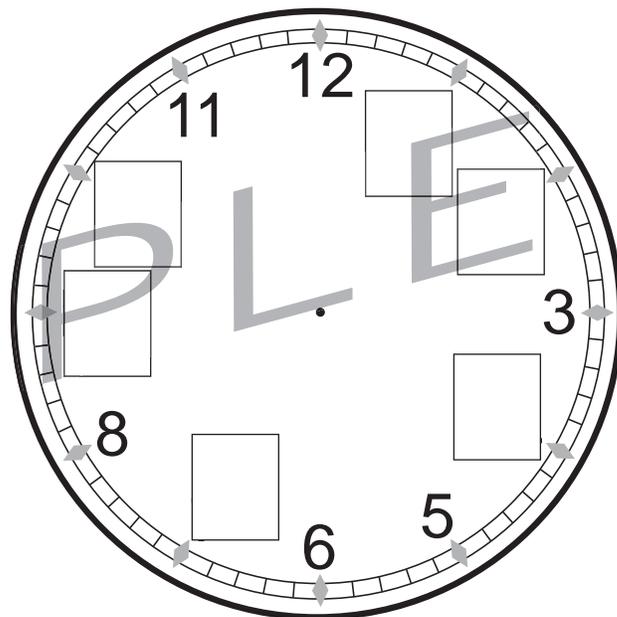
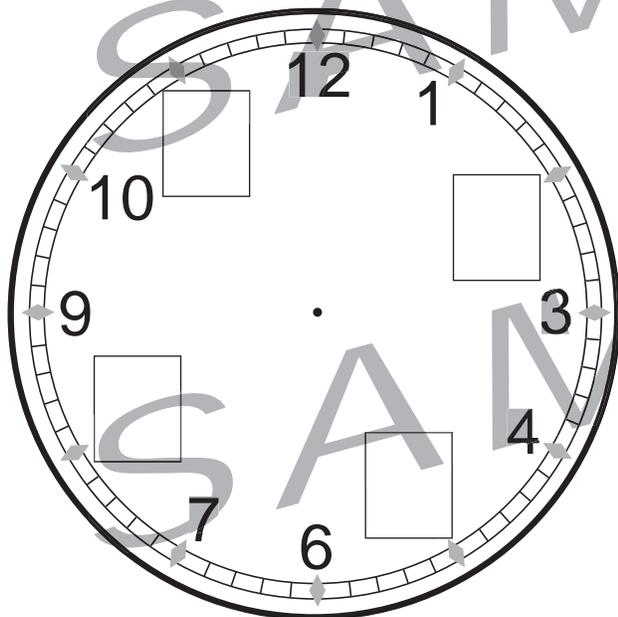
big hand

short hand

hour hand

little hand

Fill in the missing numbers on the clocks.



Circle the correct answer.

Time - Clocks

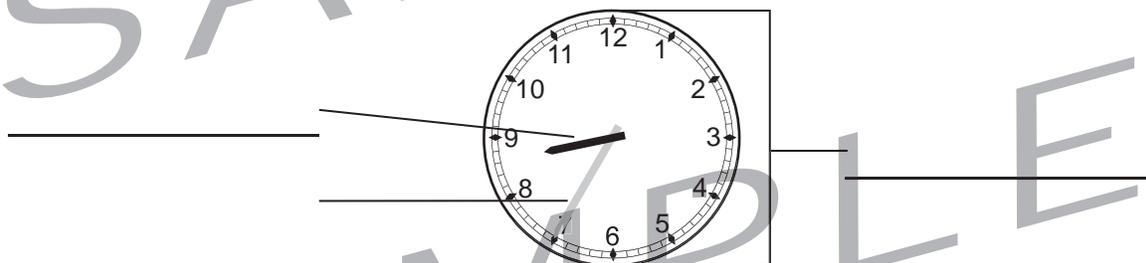
There are _____ hours in a day. 24 60

Each hour is _____ minutes long. 24 60

The _____ hand points to the hours. short long

The _____ hand points to the minutes. short long

Identify the parts of the clock.



How to Write and Say the Time

When we write time, we put the hour first and then the minutes. We put a colon between the hours and the minutes.

5:00 - 5 hours, 0 minutes - say, "five o'clock"

8:00 - 8 hours, 0 minutes - say, "eight o'clock"

12:00 - 12 hours, 0 minutes - say, "twelve o'clock"

When the time is exactly an hour with no minutes, we say, "o'clock."

Match the words with the time.

twelve o'clock	3:00	two o'clock	1:00
three o'clock	10:00	five o'clock	2:00
ten o'clock	12:00	eleven o'clock	5:00
eight o'clock	4:00	one o'clock	11:00
six o'clock	6:00	seven o'clock	9:00
four o'clock	8:00	nine o'clock	1:00

Telling Time to the Hour

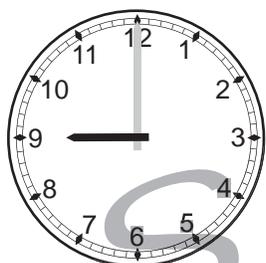
Whatever the hour, the short hour hand points to that number. The long minute hand points straight up.

Notice the numbers for the minutes around the outside of the clock. Counting by fives will help you count the minutes around the clock.

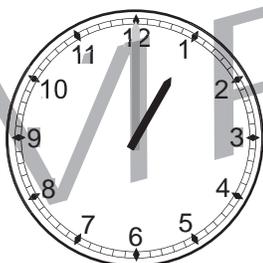
Count by 5's.

5, 10, _____, _____, 25, 30, _____, 40, 45, _____, 55,
 _____, 65, 70, _____, 80, 85, 90, _____, 100

Circle the correct time.



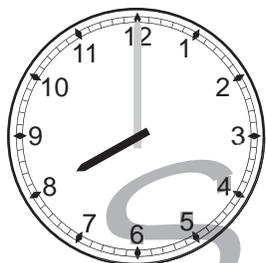
9:00 5:00



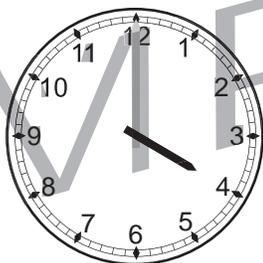
11:00 1:00



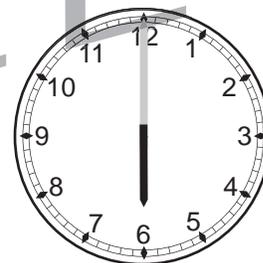
10:00 4:00



9:00 8:00



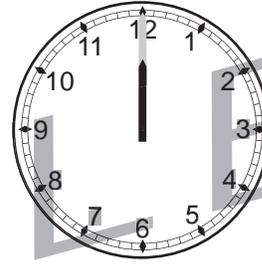
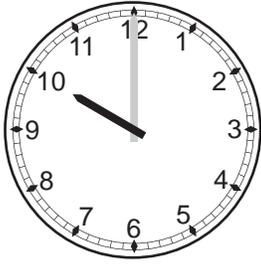
2:00 4:00



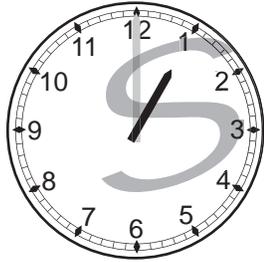
6:00 9:00

Match the time to the clock.

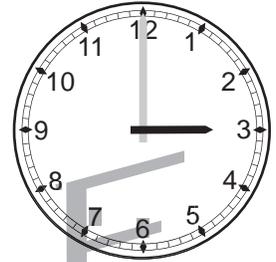
Time to the Hour



1:00



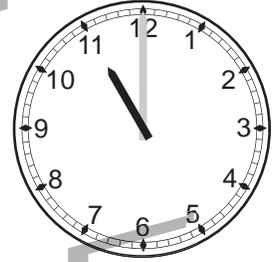
2:00



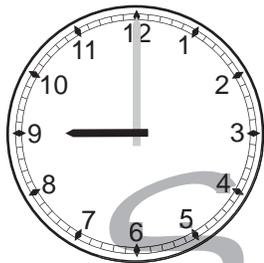
3:00



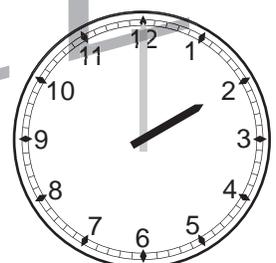
4:00



5:00



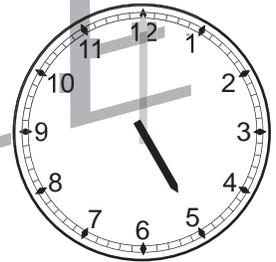
6:00



7:00



8:00



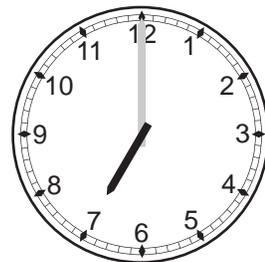
9:00



10:00

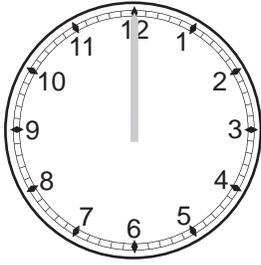
11:00

12:00

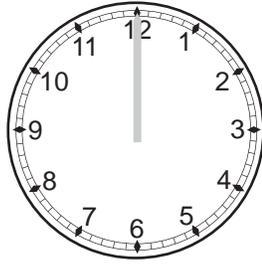


Add an hour hand to each clock.

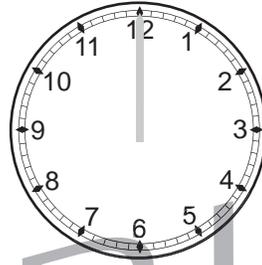
Time to the Hour



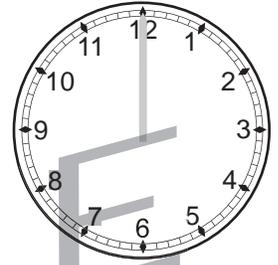
12:00



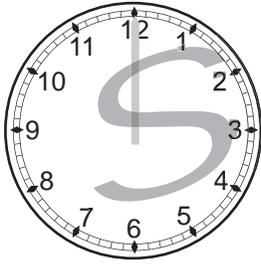
2:00



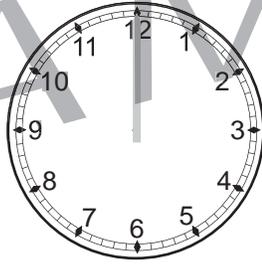
8:00



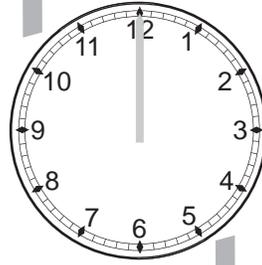
5:00



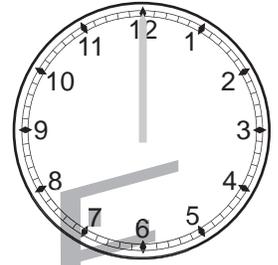
7:00



1:00



10:00

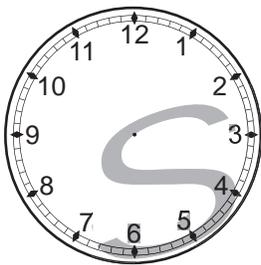


3:00

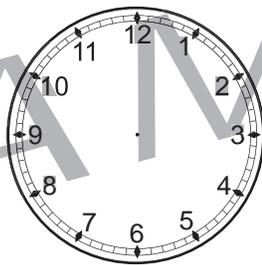
Count by 5's.

5, _____, 15, _____, 25, _____, 35, 40, 45, _____, 55, 60

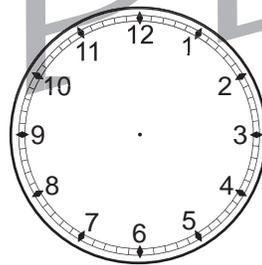
Draw both hands on each clock.



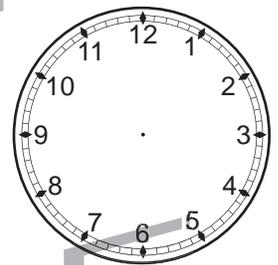
4:00



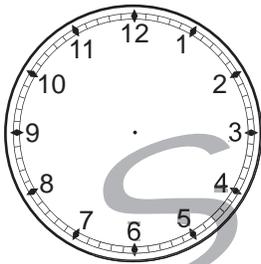
9:00



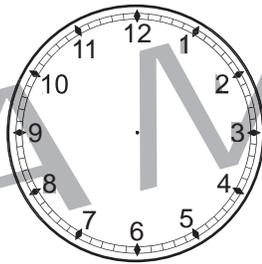
6:00



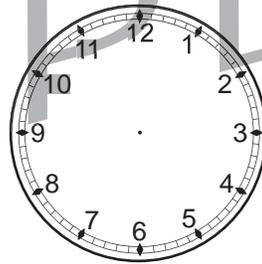
11:00



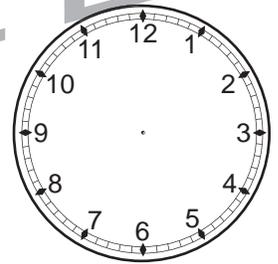
12:00



1:00



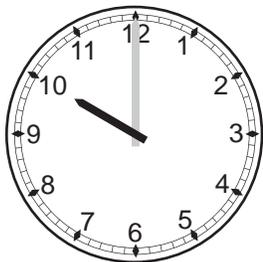
8:00



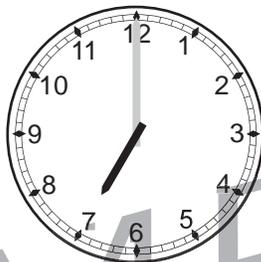
3:00

Write the time under each clock.

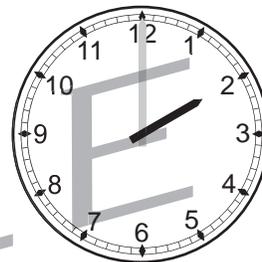
Time to the Hour



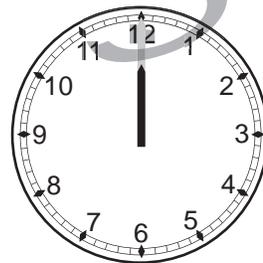
_____ : _____



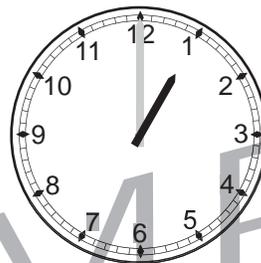
_____ : _____



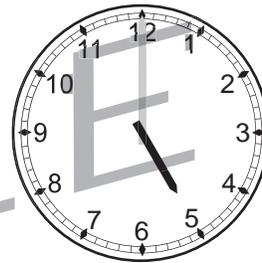
_____ : _____



_____ : _____



_____ : _____



_____ : _____

Two Kinds of Clocks

A *digital clock* tells the time with numbers.



An *analog clock* tells the time with a minute hand and an hour hand.

Write the time on the digital clock. The first one has been done for you.

Soham sat down for lunch at 12 o'clock.



The baby had a bubble bath at 7.



Hillside Elementary School gets out at 3 o'clock.



Dad gets home from work at 5 o'clock.

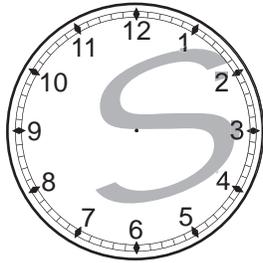


Count by 5's.

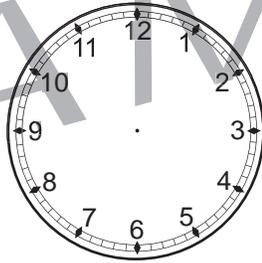
Time to the Hour

5, _____, 15, _____, 25, _____, _____, _____, 45,
_____, 55, _____, _____, 70, _____, _____

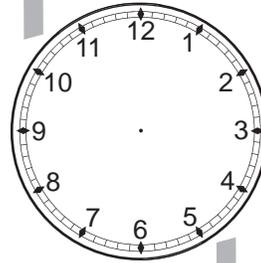
Draw both hands on each clock.



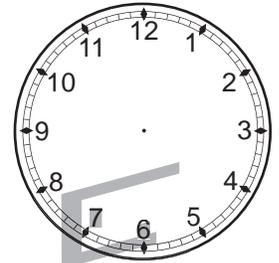
1:00



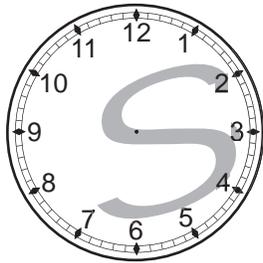
7:00



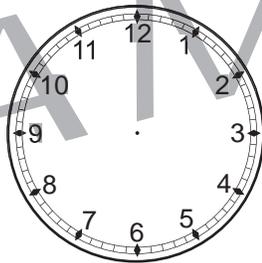
4:00



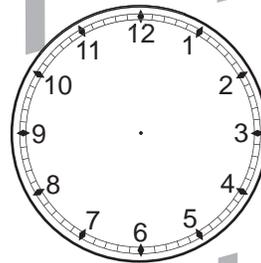
11:00



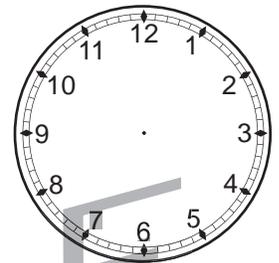
12:00



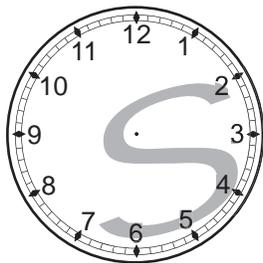
6:00



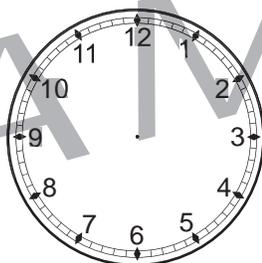
9:00



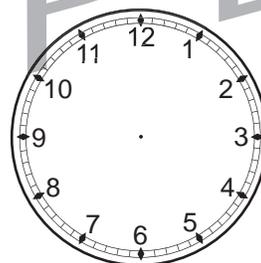
3:00



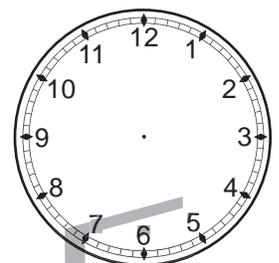
2:00



5:00



10:00



8:00

.....
: Cut out and assemble the clock at the back of the book. Use it to show these times. :
:.....

12:00

6:00

2:00

8:00

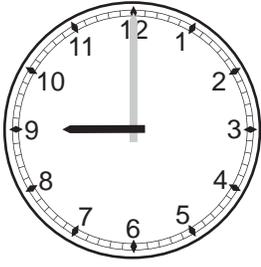
4:00

10:00

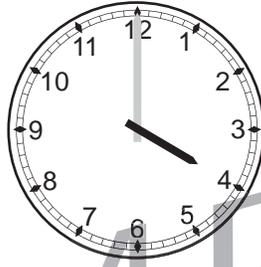
: Store the clock in a safe place so that you can use it each time you work in this book. :
:.....

Write the time under each clock.

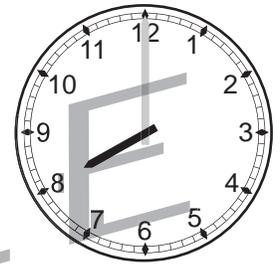
Time to the Hour - Review



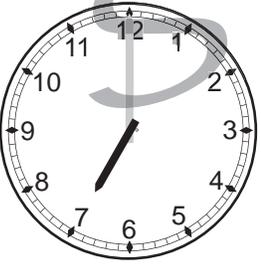
_____ : _____



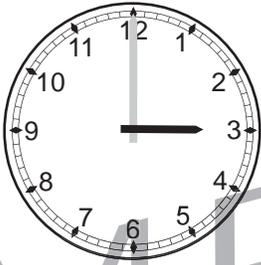
_____ : _____



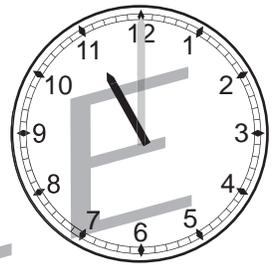
_____ : _____



_____ : _____

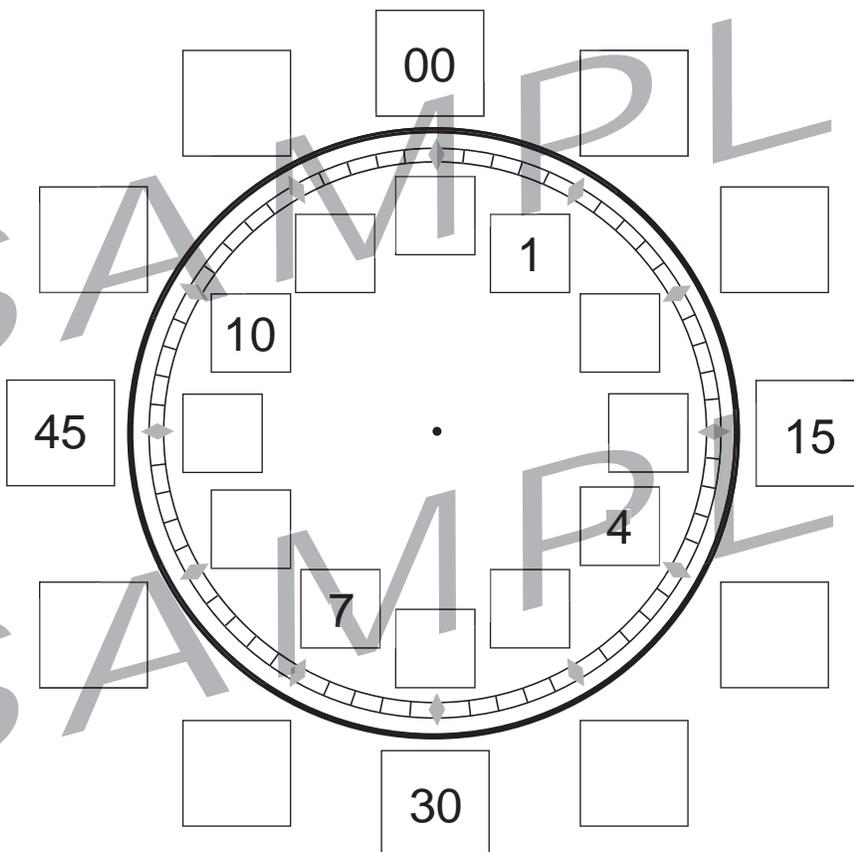


_____ : _____

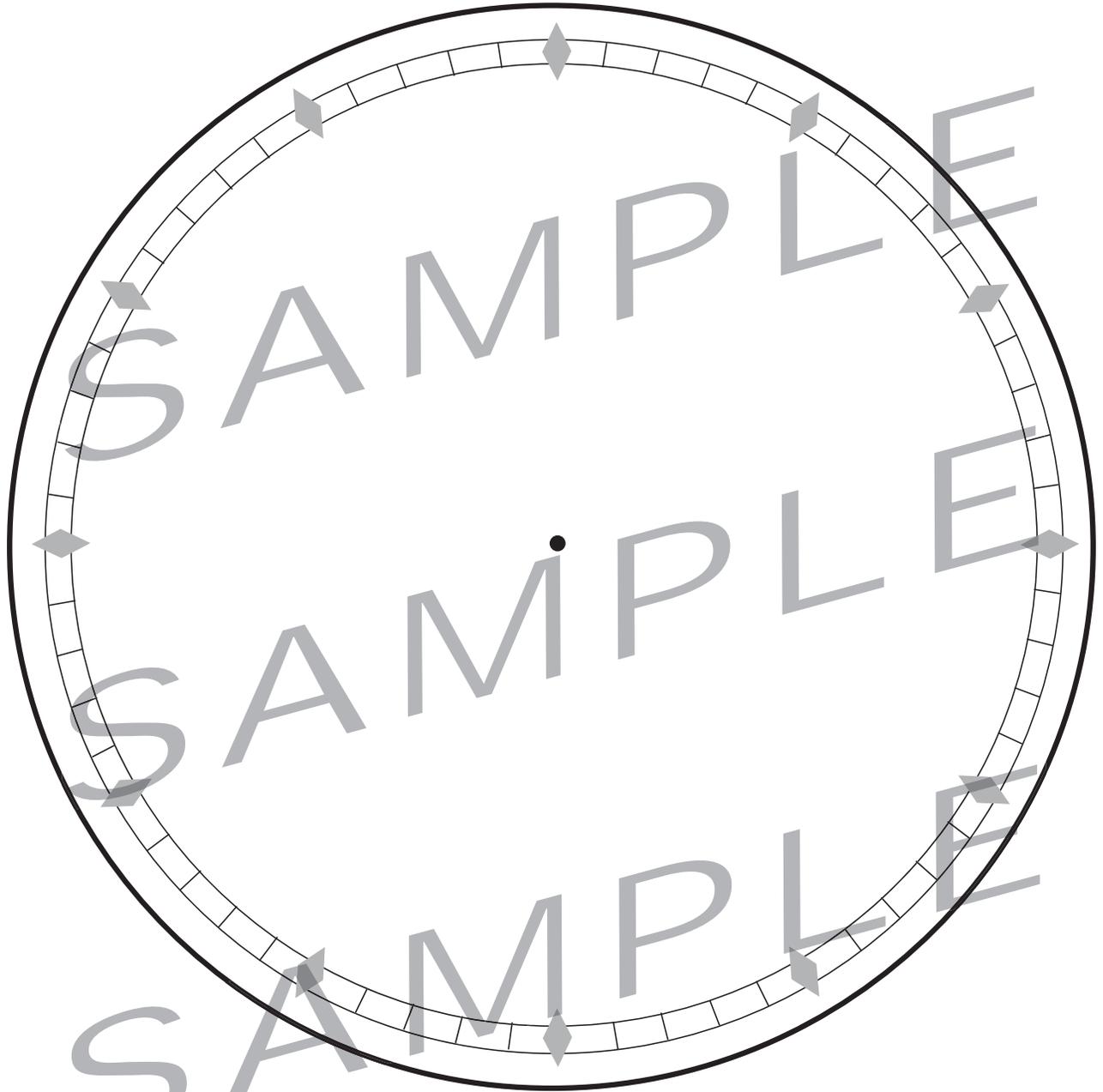


_____ : _____

Fill in the missing numbers around the clock.



Cut out the numbers and glue them onto the clock.
Draw a long hand and a short hand.



1

2

3

4

5

6

7

8

9

10

11

12

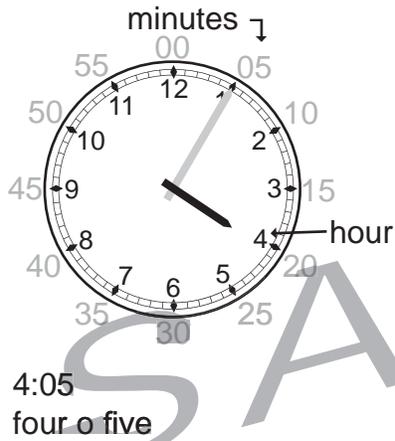
SAMPLE

SAMPLE

SAMPLE

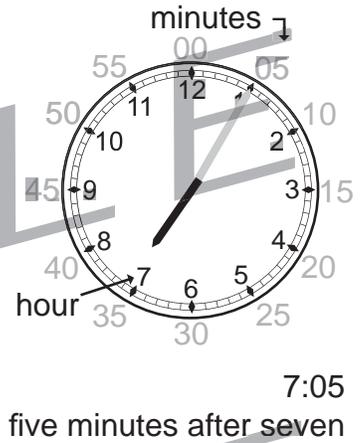
SAMPLE

Telling Time to Five After

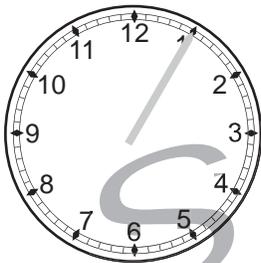


When it is 4:05, the hour hand points almost directly to the four.

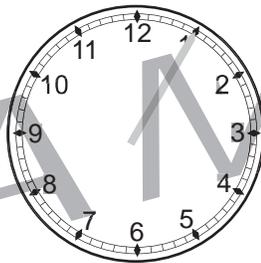
At 4:05, the long minute hand points right past the one to the 05. Remember, the minute hand uses the numbers on the outside of the clock.



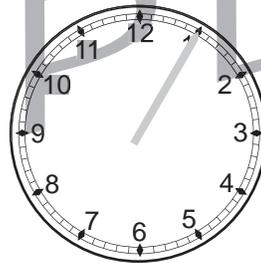
Fill in the missing hand on each clock.



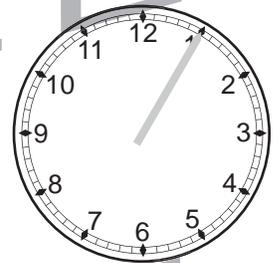
4:05



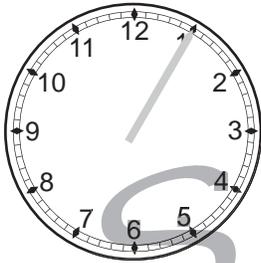
1:05



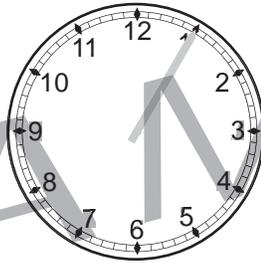
10:05



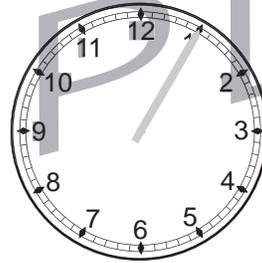
7:05



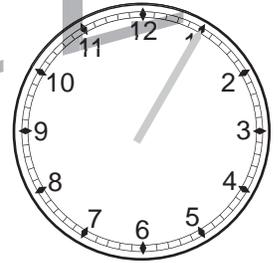
12:05



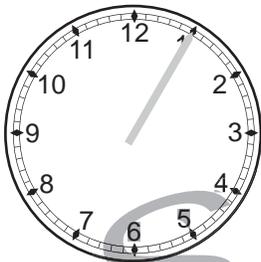
8:05



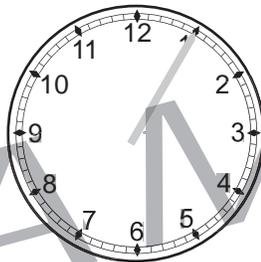
2:05



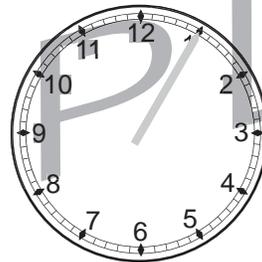
5:05



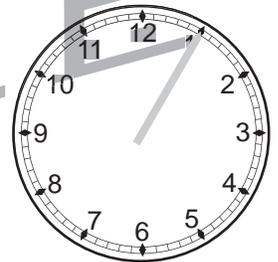
9:05



3:05



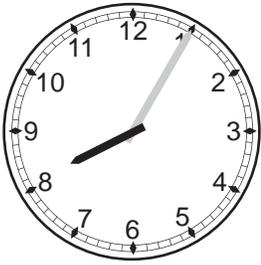
6:05



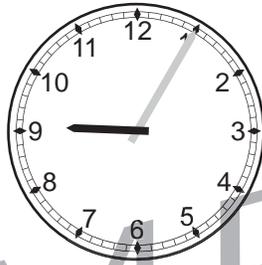
11:05

Write the time under each clock.

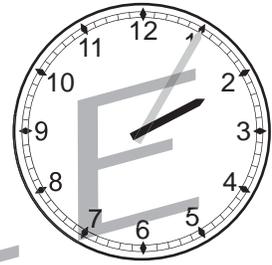
Time to Five After



_____:



_____:



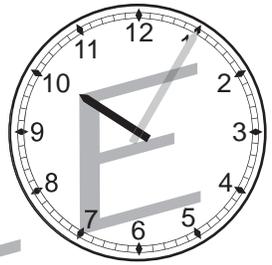
_____:



_____:



_____:



_____:

Color the circle next to the correct way to say the time.



- twelve o'clock
- five minutes after twelve



- five o'clock
- five o five



- four o'clock
- five minutes after four



- eleven o'clock
- five minutes after eleven



- six o'clock
- six o five



- two o'clock
- two o five



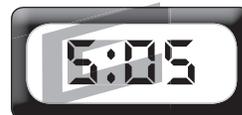
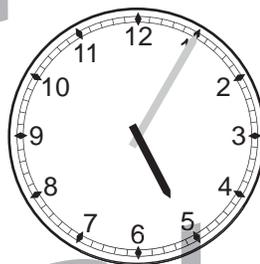
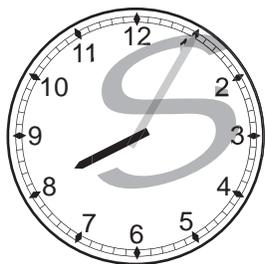
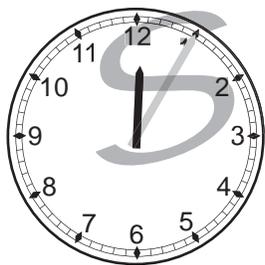
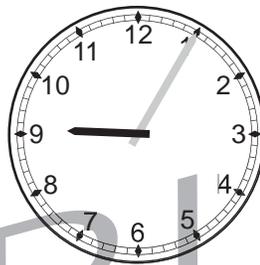
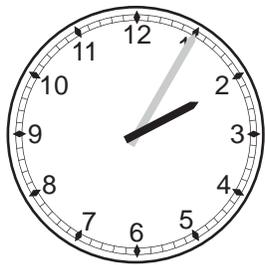
- nine o'clock
- five minutes after nine



- eight o'clock
- five minutes after eight

Circle the digital clock showing the correct time.

Time to Five After



Circle the correct answer.

There are _____ hours in a day. 24 60

Each hour is _____ minutes long. 24 60

The short hand points to the _____. minutes hours

The long hand points to the _____. minutes hours

Use the clock from the back of the book to show these times.

11:05

5:05

1:05

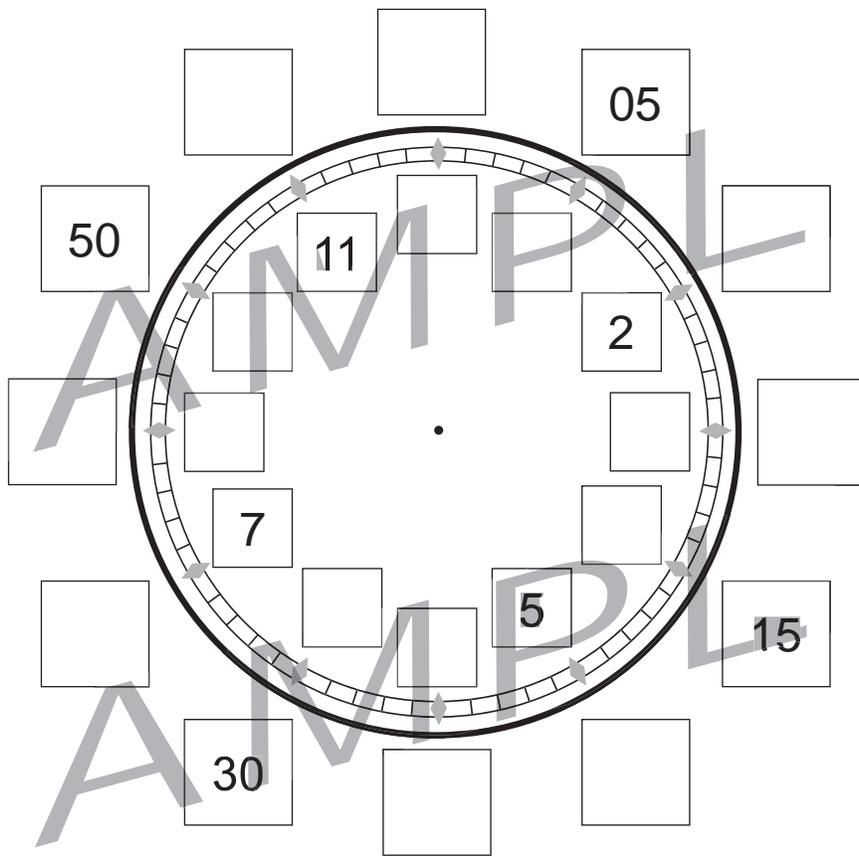
7:05

3:05

9:05

Fill in the missing numbers around the clock.

Time to Five After



Write the time on the clock.

The plane will lift into the air at five minutes after twelve.



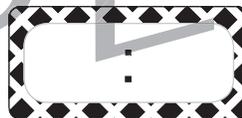
Grandma called at five minutes past four.



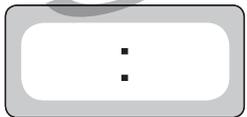
John set his alarm for five minutes after six.



The games will start at five past two.



We will be finished with math at five minutes after eleven.



The baby woke up at five after eight.

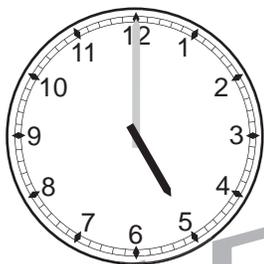


Circle the correct time. Be careful!

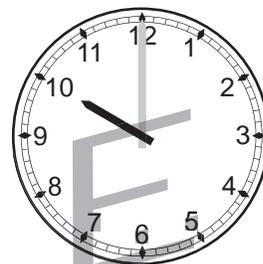
Time to Five After



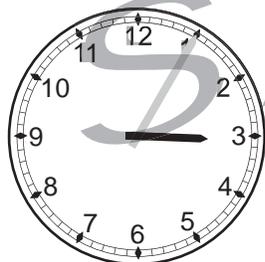
12:00 12:05



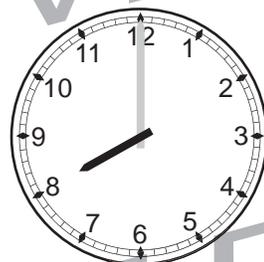
5:00 5:05



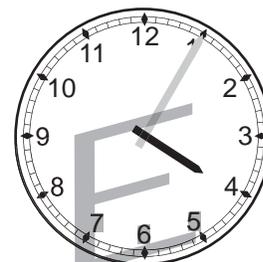
10:00 10:05



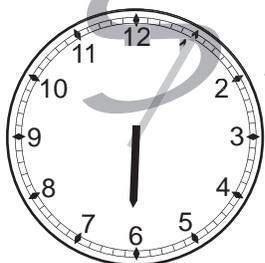
3:00 3:05



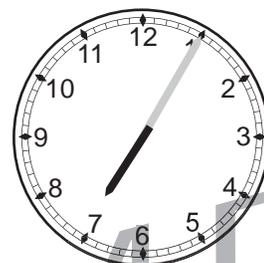
8:00 8:05



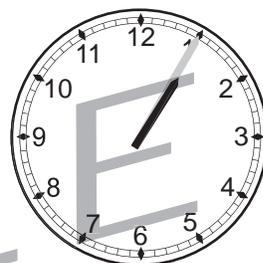
4:00 4:05



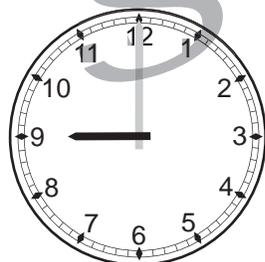
6:00 6:05



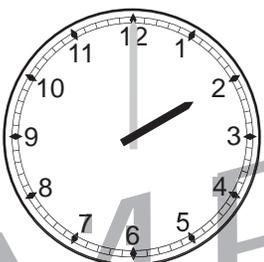
7:00 7:05



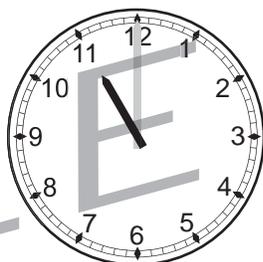
1:00 1:05



9:00 9:05



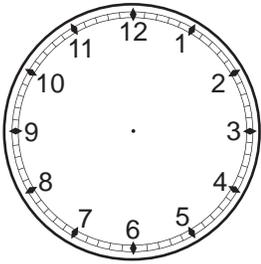
2:00 2:05



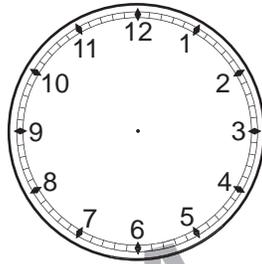
11:00 11:05

Draw both hands on each clock.

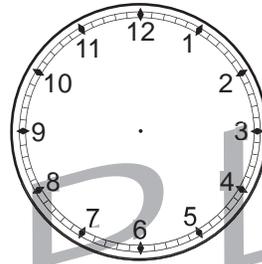
Time to Five After - Review



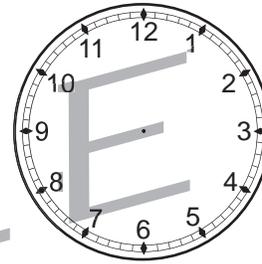
2:00



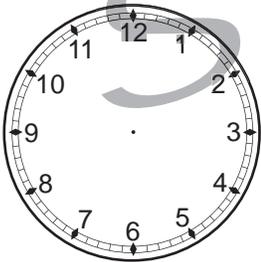
9:05



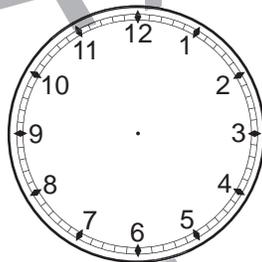
4:00



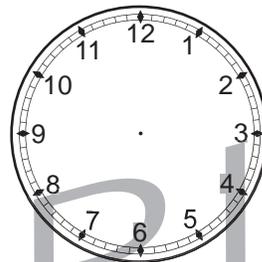
11:05



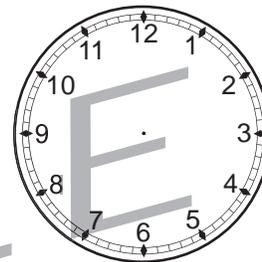
6:00



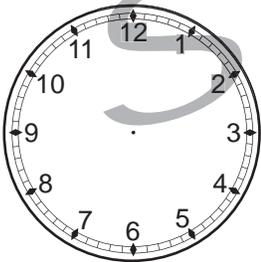
1:05



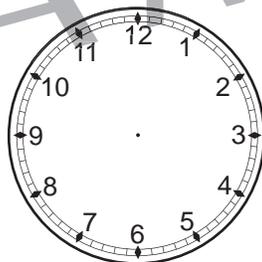
8:00



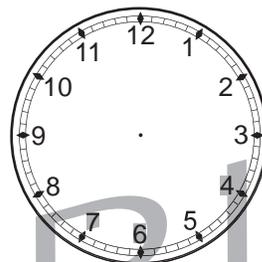
3:05



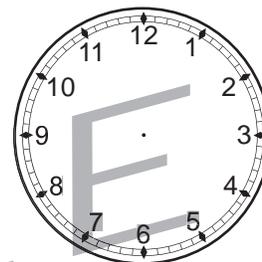
10:00



5:05



12:00



7:05

Count by 5's to sixty.

5, _____, _____, _____, _____, _____,
_____, _____, _____, _____, 60

- Set the clock from the back of the book to 6:00. Move the minute hand forward five minutes. What time is it now?
- ★ Set the clock to 12:05. Move the minute hand backward five minutes. What time is it now?

Cut out the numbers and glue them around the outside of the clock.
Cut out the hands and glue them on to show 12:00.

