

Name: _____

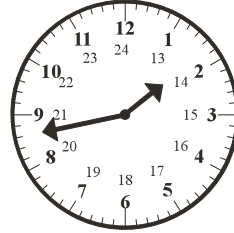
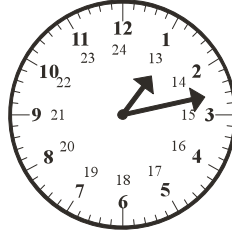
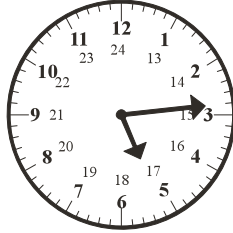
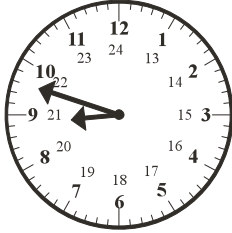
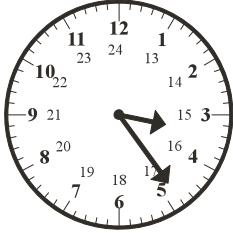
REMEMBER!

00:00 = 12:00 A.M. = midnight
12:00 = 12:00 P.M. = noon

Grade 5

MEASUREMENT: 24-HOUR TIME

1. Draw a line from each clock to the correct time. One line has been drawn for you.



17:14

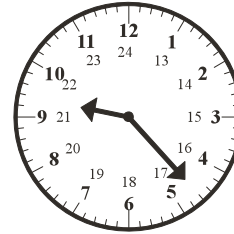
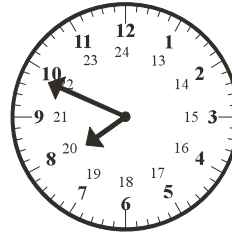
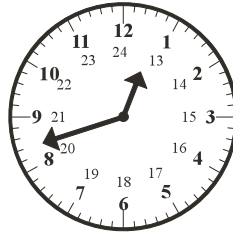
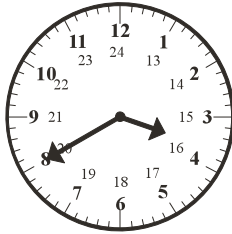
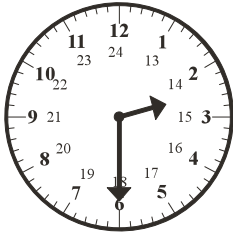
01:43

13:13

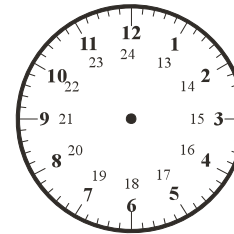
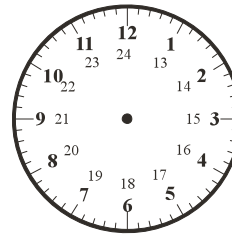
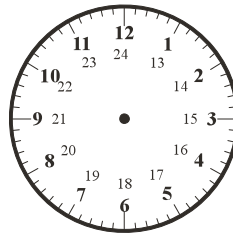
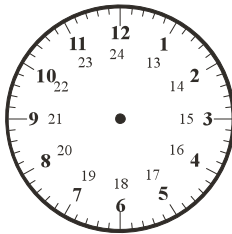
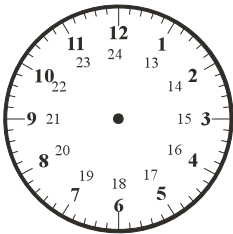
03:24

20:48

2. In 24-hour time, write each time shown. Each time is between 12:00 and 24:00.



3. Draw hands to show each time.



02:00

08:15

12:50

19:52

23:32

4. In words, write two different times shown on each clock. The first one has been done for you.



Eleven hundred

Twenty three hundred

5. Write each time as it would appear on a 12-hour clock. Don't forget A.M. or P.M.

11:50

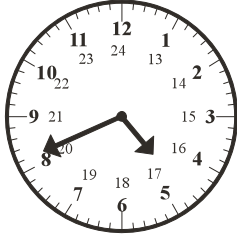
13:00

14:55

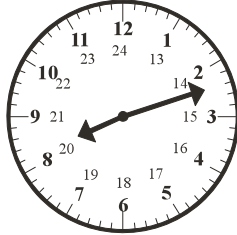
02:55

23:59

6. Estimate, to the nearest five minutes, the two different times shown. Write your answers in 24-hour time. One has been done for you.



04:40 or 16:40



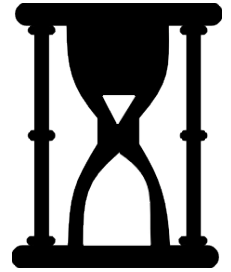
4:23

10:56

2:08

DID YOU KNOW?

The first tool used to measure time was a sundial. As the sun moved, shadows changed size and direction. The candle clock used the speed of a burning candle to measure time. The hourglass measured time using flowing sand.



7. Don't forget to play *Stop the Clock!*
Go to mathfrog.ca for the link.

8. The Zhao family lives in Toronto and wishes to visit London for two days. After that, they would like to visit Paris for three days, Rome for two days, Madrid for one day, and Berlin for three days before returning home.

- (a) How many days will they be in these cities? _____
- (b) One day is needed for each direct flight. For how many days will the Zhao family be travelling? _____
- (c) Can the Zhao family complete this trip in just three weeks? _____
Please explain why or why not. _____

9. For Mother's Day, Steve wishes to buy a small painting. The cost of the painting is \$25.00. His allowance is \$1.25 per weekday. In order to buy the painting, how many weeks before Mother's Day must he start saving his allowance? _____

TRY THIS!

During a leap year, February has 29 days instead of 28. There are 366 days in a leap year. Years divisible by 4 **are** leap years, except that years divisible by 100 **are not** leap years, and finally years divisible by 400 **are** leap years. (The years 1980, 1984, and 1988 **are** leap years. The years 1700, 1800 and 1900 **are not** leap years. The years 1600, 2000, 2400 **are** leap years.)

- (a) How many years between 1999 and 2501 are leap years? _____
- (b) How many years are not leap years? _____
- (c) How many days are there from January 1st, 2000 to December 31st, 2500?



For more practice, play **Bang On Time** at
<http://www.oswego.org/ocsd-web/games/BangOnTime/clockwordres.html>.

Expectations: i) solve problems involving the relationship between a 12-hour and a 24-hour clock
ii) estimate and determine elapsed time, with and without using a time line