

Exploring Units of Time



Quick Review

You can use different units to measure time.

- 1 hour = 60 minutes
- 1 day = 24 hours
- 1 week = 7 days
- 1 month = about 4 weeks
- 1 year = 12 months, 52 weeks, or 365 days
- 1 decade = 10 years
- 1 century = 10 decades or 100 years
- 1 millennium = 10 centuries or 1000 years

Choose a reasonable unit to measure time.

It's more reasonable to say

Lynne rode her bicycle
for 2 hours.

than

Lynne rode her bicycle
for 120 minutes.

Try These

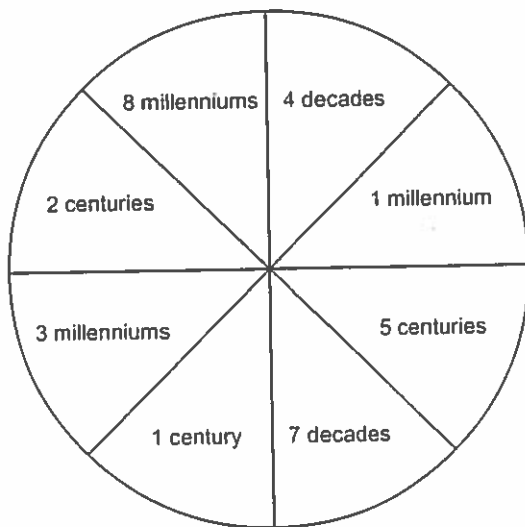
1. Complete each sentence with the most reasonable unit of time.
 - a) The Olympics take place every 4 _____.
 - b) Penny speed walks for 30 _____ each day.
 - c) Mahood practises on his violin for 1 _____ every night.
2. Write $>$, $<$, or $=$ in each box.

a) 6 decades <input type="checkbox"/> 40 years	b) 2 centuries <input type="checkbox"/> 200 years
c) 1 millennium <input type="checkbox"/> 100 years	d) 15 hours <input type="checkbox"/> 1 day

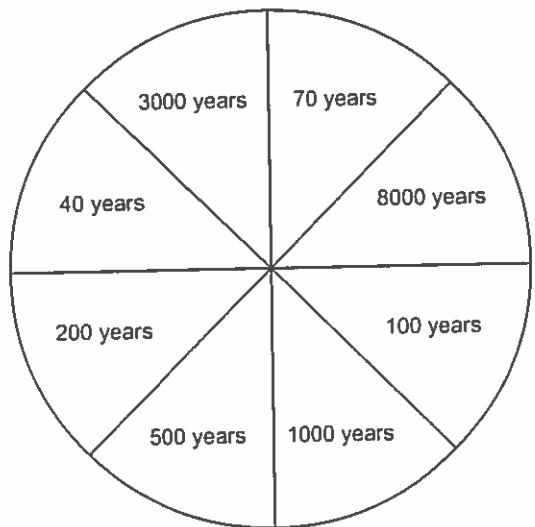
artner.

2 open paper clips to use as pointers
Paper to record your points

- Make the two spinners like the ones below.
- Each player spins the pointer on his or her spinner.
Compare the results.
- The player with the longer time period gets a point.
- If the time periods are equal, both players get a point.
- Keep playing until one player has 10 points.



Player A



Player B

Stretch Your Thinking

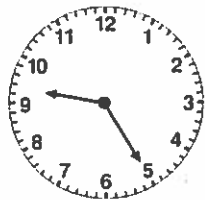
Orville and Wilbur Wright took their first flight about 100 years ago.
Write this time period in as many different ways as you can.

Telling Time

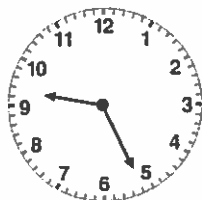


Quick Review

When the minute hand moves from one mark on the clock to the next mark, it takes 1 minute of time.



9:25



9:26

You can read times after the half-hour in different ways.

52 minutes after
4 o'clock or 4:52

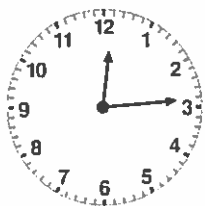


8 minutes before 5 o'clock
or 8 minutes to 5

Try These

1. Write the time shown on each clock.

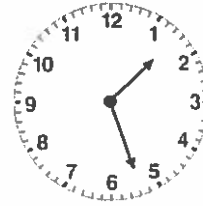
a)



b)

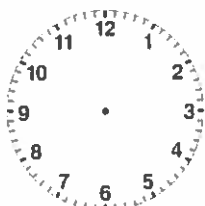


c)



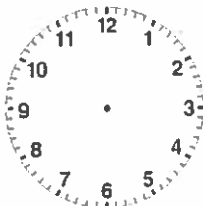
2. Show the time on each clock.

a)



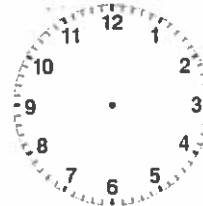
9:58

b)



3:39

c)

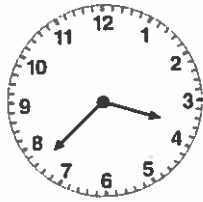


10:21

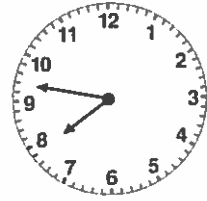
Practice

1. Write each time in two ways.

a)



b)

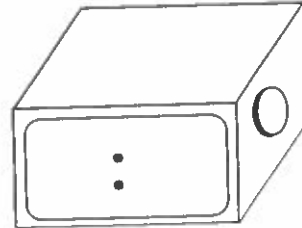
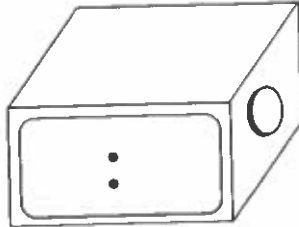
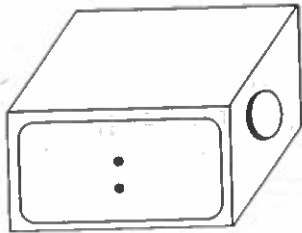


2. Show the time on each digital clock.

a) quarter to five

b) half past eleven

c) quarter past six



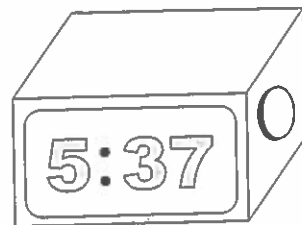
3. Write something you might be doing at each time.

a) 12:04 p.m. _____

b) 3:58 a.m. _____

Stretch Your Thinking

The sum of the digits on this digital clock is 15.
At what other times will the digits add up to 15?
Give at least 2 answers.



Estimating Time



Quick Review

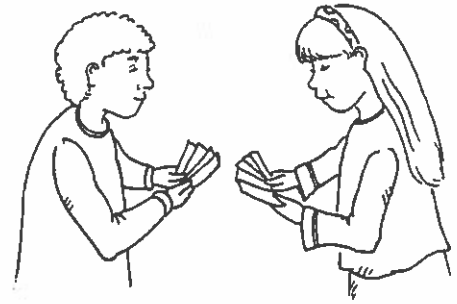
One small unit of time is a **minute**.



It takes about
1 minute to count
to 100.



It takes about
5 minutes to eat
an apple.



It takes about
15 minutes to play
a game of Go Fish.

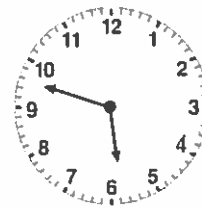
Try These

- Circle the better estimate for how long each activity would take.
 - Make a peanut butter sandwich. 2 minutes or 15 minutes
 - Take a shower. 10 minutes or 20 minutes
 - Walk the dog. 20 minutes or 4 hours
 - Sing "O Canada." 15 minutes or 2 minutes

- Write how long it takes the minute hand to move
from



to




Practice

1. Work with a partner.

Take turns.

- Choose an activity from the chart.
- Estimate how long it will take to do the activity.
Record your estimate.
- Have your partner time you while you do the activity.
Record the time to the nearest minute.

Activity	Estimated Time	Actual Time
Count back by 2s from 99 to 1.		
Find the word <i>spider</i> in a dictionary.		
Draw 50 happy faces. 		
Measure the length of the room.		
Multiply 27×8 .		

Stretch Your Thinking

Lee leaves for school at 8:10 a.m.
He needs to do his chores before he leaves.
At about what time do you think he should
start his chores? Explain.

Lee's Morning Chores

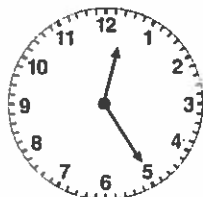
- Make the bed ✓
- Feed the dog ✓
- Pack lunch ✓

Exploring Elapsed Time



Quick Review

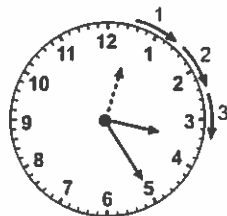
You arrive at the park at 12:25 p.m.



You can spend 3 hours and 30 minutes there.

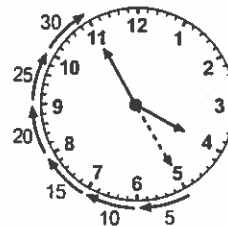
Here's how to find out what time to leave the park.

Start at 12:25 and add 3 hours.



12:25 p.m. → 3:25 p.m.

Then add 30 minutes.



3:25 p.m. → 3:55 p.m.

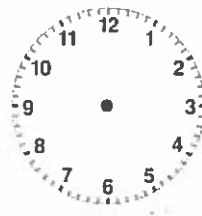
You will leave the park at 3:55 p.m.

The time between 12:25 p.m. and 3:55 p.m. is the **elapsed time**.

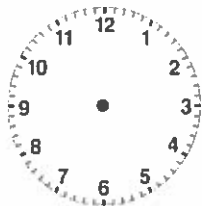
Try These

Show the end time on each clock.

- Rapi's guitar lesson started at 7:15. It lasted for 40 minutes.



- The ball game started at 1:30 p.m. It lasted 1 hour and 20 minutes.



Practice

1. Write each elapsed time.

a) 6:45 a.m. to 7:58 a.m. _____

b) 10:08 a.m. to 1:30 p.m. _____

c) 3:17 p.m. to 7:47 p.m. _____

2. The hot air balloon ride is 1 hour and 20 minutes long. Complete the table to show the end time for each ride.

Balloon Rides

	Take-off Time	End Time
a)	7:45 a.m.	
b)	12:15 p.m.	
c)	2:00 p.m.	

3. How much time is there between the start of the second ride and the start of the third ride? _____

4. Keisha left home at 11:20. She got to the balloon rides at 1:15.

How long did it take Keisha to get there? _____

Stretch Your Thinking

Find out the sunrise and sunset times for today.

Record the times, and find the elapsed time between them.
