Clever Clock Workbook

What time is it?
How long will it take?
What time will we get there?

Learn to tell time and solve time-related problems with this 32-page activity book! Each activity gives practice in telling time or figuring how much time has passed.

Use with the Clever Clock™ (LER 2998) or other learning clocks to make learning time fun!

Look for these other fine products available from Learning Resources®:

- Timing It Right™ Game (LER 0506)
- The Primary Time Teacher™ Junior 12-Hour Learning Clock® (LER 3000)
- Time & Money Game Board Book (6 games) (LER 3163)

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Includes 26 Activities

Tell Time
Understand Elapsed Time
Solve Time-Related Problems
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This workbook provides additional fun and hands-on practice for children learning to tell time. The activities are based on the National Council of Teachers of Mathematics (NCTM) Standards, and are to be used with the Clever Clock™ or any time-teaching, self-checking clock. Ideally, each activity should be used as a follow-up to exploration with the clock.

The problems take familiar time-telling situations to the next level. The skills covered in this book include telling time by hours, half-hours, quarter hours, and five- and one-minute intervals. The book progresses with activities on elapsed time and is intended for higher-level reinforcement and practice.

When working on the pages, children are encouraged to use a self-checking clock to help them solve the problems. An answer key is located at the back of the book for your reference.
How to Use This Book

This activity book is sequenced by levels of difficulty. Each section of the book builds on preceding concepts. The time on the clock in the corners of the pages indicates the level of difficulty. Pages 32-33 list answers to the problems.

**Level 1** reviews the clock and basic time concepts of hour, half-hour, and quarter hour. Use these pages to help you gauge the child’s skill level in reference to telling time. The activities in this section may be used as a quick review for some children or an introduction for others.

**Level 2** reinforces the ability to tell time by minute and five-minute increments. If a child needs more practice, use these pages as catalysts for similar activities. The activities in Level 1 can also be adjusted to create similar activities to minute and five-minute increments.
**Level 4** provides further practice in understanding elapsed time. The questions go one step further by encouraging students to determine the time that has elapsed, the start time, or the end time, if given two of these components.

**Level 3** introduces and reinforces the ability to tell elapsed time. Children use a clock such as the Clever Clock™ to determine the time that has passed. Children can then use the clock to check their answers. The activity pages can be used with other self-checking clocks.
Name: ____________________________________________

Directions: Turn the long hand around your clock. This shows minutes on the digital face.

Look at each clock face below, and write the time shown. Then, turn the minute hand on your clock to check the time.

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.
Name: ____________________________________________

Directions: The Jones family always shows up late to events by one hour. Each digital clock shows the time that the family arrives.

Draw the hour hand on the clock faces to match the digital times. Use your clock to check your work.

1. 2:00 2. 7:00 3. 5:00 4. 1:00 5. 12:00
6. 8:00 7. 6:00 8. 4:00 9. 9:00
Name: ____________________________________________________________

Directions: When the minute hand reaches the 6, it is one half-hour past the hour. Set the minute hand on each clock face below to match the digital time. Use your clock to check your work.

1. __________________  2. __________________  3. __________________  4. __________________  5. __________________

| 2:30 | 5:30 | 1:30 | 9:30 | 12:30 |

6. __________________  7. __________________  8. __________________  9. __________________  10. __________________

| 4:30 | 6:30 | 8:30 | 11:30 | 3:30 |
Name: ____________________________________________________________

Directions: Set each clock by drawing in the minute hand to the time shown. Use your clock to check your work.

1. 2:30 2. 7:30 3. 4:30 4. 6:30 5. 5:30

6. 8:30 7. 11:30 8. 9:30 9. 1:30
Name: ________________________________

Directions: These clock faces show time to the quarter hour. A quarter after is 15 minutes after the hour and a quarter ‘til is 15 minutes until the next hour.

Look at each clock face, and write down the time shown below. Then, check your work by setting your clock to the times shown.

1. Quarter After …
2. Quarter ‘Til
3. Quarter After …
4. Quarter ‘Til
5. Quarter After …
6. Quarter ‘Til
7. Quarter After …
8. Quarter ‘Til
9. Quarter After …
10. Quarter ‘Til
11. Quarter After …

Clever Clock Workbook © Learning Resources, Inc.
Name: ________________________________

Directions: Write the letter of each digital time on the line next to its matching clock face. Use your clock to check your work.

1. [Clock Face] 2. [Clock Face] A. [3:30]
3. [Clock Face] 4. [Clock Face] B. [2:00]
5. [Clock Face] 6. [Clock Face] C. [6:15]
7. [Clock Face] 8. [Clock Face] D. [7:45]

Name: __________________________________________________________

Directions: Next to each clock, write the time it shows. Then draw a line to match up the digital times.

1. [Clock] :  

2. [Clock] :  

3. [Clock] :  

4. [Clock] :  

5. [Clock] :  

A. 12:45  
B. 9:30  
C. 4:45  
D. 2:00  
E. 5:15
Name: ____________________________________________________________

Directions: The minute hand shows time pass from minute to minute. There are 60 seconds in a minute. Try completing the following activities in just one minute, using the stopwatch and a partner to time yourself. Record how much of the activity you were able to do during that time.

1. Number of sit-ups in one minute ____________________________________
   __________________________________________________________________

2. Typing your beginning, middle, and last name on the computer __________
   __________________________________________________________________

3. Blowing up a balloon _____________________________________________
   __________________________________________________________________

4. Counting to 60 ___________________________________________________
   __________________________________________________________________

5. (Choose an activity) _____________________________________________
   __________________________________________________________________

Now try these activities using a stopwatch and a partner to keep time. Write down the time that you took to complete each activity.

Time Taken:

1. Writing the alphabet ____________________________
2. Listening to a song ______________________________
3. Waiting for your favorite Internet site ________________
4. Walking 30 paces ________________________________
5. (Choose an activity) ______________________________

Which activities took longer than one minute? ____________________________
Directions: The minutes of a clock move clockwise, or in a circle to the right. The numbers move around the clock by 5-minute intervals.

Find the clock that matches the description. Use your clock to check your work.

1. Molly eats dinner at 6:05. Circle the clock that shows 6:05.
   - A.
   - B.
   - C.

2. Robby woke up today at 7:45. Circle the clock that shows 7:45.
   - A.
   - B.
   - C.

3. Chase starts his homework at 4:30. Circle the clock that shows 4:30.
   - A.
   - B.
   - C.
Name: ____________________________

Directions: Draw a line from the digital time to its matching clock.

1. 4:55
   A. 

2. 12:30
   B. 

3. 7:00
   C. 

4. 2:45
   D. 

5. 5:35
   E. 

6. 9:15
   F. 

5 Minute Match-Up
Directions: Set the times below on your clock. Then, draw in the minute hand on each clock face below to match its digital time.

1. 12:45  
2. 5:45  
3. 1:25  
4. 2:15  
5. 3:30  
6. 7:10  
7. 4:50  
8. 2:40  
9. 9:20
Minutes to Hours

Name: ____________________________________________

Directions: When the minute hand of a clock moves past 35 minutes, the clock’s hour hand moves close to the next hour. Set the times below on your clock. Circle yes if the hour hand is close to the next hour and no if it’s not.

1. A. yes  B. no
2. A. yes  B. no
3. A. yes  B. no
4. A. yes  B. no
5. A. yes  B. no

6. A. yes  B. no
7. A. yes  B. no
8. A. yes  B. no
9. A. yes  B. no
10. A. yes  B. no

Clocks on the 5s
Name: ______________________________________

Directions: Set the times below on your clock. Count off each minute out loud if you need help. Then, draw

1. 4:45
2. 6:10
3. 3:25
4. 12:25
5. 8:05
6. 1:10
Name: ________________________________

Directions: Set the times below on your clock. Count off each minute out loud if you need help. Then, draw the minute and hour hands on the clocks below.

1. 9:40
2. 4:55
3. 2:50
4. 7:30
5. 6:50
6. 1:45
Elapsed Time by Hours

Name: ________________________________________________________

Directions: Elapsed time means the amount of time that has passed. Find the time that has elapsed in each problem below from the first time to the second time, and write the amount on the line.

If you need help, use your clock and count the number of times that you had

1. 1:30 → 2:30
2. 3:00 → 7:00
3. 2:00 → 8:00
4. 9:00 → 10:00
5. 6:30 → 8:30
6. 12:00 → 4:00
7. 10:00 → 12:00
8. 8:30 → 9:30
Name: ____________________________________________________________

Directions: Use these story problems to find out the amount of time that has elapsed. If you need help, use your clock and count the number of times that you had to move the minute hand once around, from 12 to 12, in a clockwise direction.

1. Felipe eats a bagel for breakfast at 10:00. He finishes at 10:30. How much time has elapsed?

   Draw the hour and minute hand for 10:30 on the clock.

2. Carly plays softball from 3:00 to 4:00. How much time has elapsed?

   Draw 4:00 on the clock below.

3. Cecil goes to bed at 9:00 and reads until 9:30. How much time has elapsed?

   Draw 9:30 on the clock.

4. Lee takes his little sister for a walk from 7:25 to 8:25. How much time has passed?

   Draw 8:25 on the clock below.
Name: __________________________________________

Directions: Look at each time below. Write the time the clock would show if a half-hour had elapsed. Check your work using your clock.

1. [Clock Image]

2. [Clock Image]

3. [Clock Image]

4. [Clock Image]

5. [Clock Image]

6. [Clock Image]

7. [Clock Image]
Quarter Past Match-Up

Name: ____________________________________________

Directions: Draw a line from each time below to the clock that shows a quarter hour past that time.

1. 10:00
   - A.

2. 5:30
   - B.

3. 6:30
   - C.

4. 2:00
   - D.

5. 12:00
   - E.

6. 3:30
   - F.
# Passing Time by an Hour

**Name:** __________________________________________________________

**Directions:** Calculate the amount of time that has elapsed in these problems. If you need help, use your clock and count the number of minutes that you had to move the minute hand around in a clockwise direction.

<table>
<thead>
<tr>
<th>Time Elapsed:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 9:15 → 10:15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. 2:45 → 3:15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. 6:30 → 6:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 7:30 → 7:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 1:00 → 2:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 3:15 → 5:15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 12:15 → 4:15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. 11:45 → 12:45</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Directions: Look at the clocks below and use your clock to find out how much time each activity took. Fill in the missing information.

1. Making a cake
   Time elapsed: __________

2. Going for a bicycle ride
   Time elapsed: __________

3. Finishing math homework
   Time elapsed: __________

4. Watering the plants in the garden
   Time elapsed: __________

5. Watching a movie
   Time elapsed: __________
Directions: Set your clock to the time below. Then, move the minute hand five minutes ahead until you reach the second time. How much time has passed?

1. 12:15  →  12:20
   Time elapsed: ________

2. 5:45  →  5:55
   ________

3. 12:30  →  12:45
   ________

4. 6:45  →  7:10
   ________

5. 1:10  →  1:30
   ________

6. 2:50  →  3:10
   ________

7. 7:30  →  9:05
   ________

8. 3:15  →  4:00
   ________
Name: ____________________________________________

Directions: Use the information below to find the start time, time elapsed, or end time. Use your clock to set the times.

Start Time: | Time elapsed: | End Time:
---|---|---
1. 3:00 | 1 Hour | : 
2. 4:15 | | 6:15
3. 8:00 | | 9:00
4. | 1 Hour | 10:30
5. | 3 Hours | 12:15
6. 5:00 | 1 Hour | :
7. 2:15 | | 6:15
8. | 2 Hours | 1:30
Name: ____________________________________________________________

Directions: Use this segment from a Saturday morning television guide to answer the questions below. Use your clock to set the times if you need help.

<table>
<thead>
<tr>
<th></th>
<th>8:00</th>
<th>8:30</th>
<th>9:00</th>
<th>9:30</th>
<th>10:00</th>
<th>10:30</th>
<th>11:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFUN 8</td>
<td>Casey’s Caverns</td>
<td>Jolly Jabbers</td>
<td>Heatman!</td>
<td>Mammoth Mysteries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WKID 23</td>
<td>Summer Kids</td>
<td>Adie’s Adventures</td>
<td>Weird Wilderness</td>
<td>Jodie and the Band</td>
<td>Lulu’s Lunch</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. How long of a show is *Summer Kids*? __________________________

2. What time will *Heatman!* end? ________________________________

3. How long of a show is *Jolly Jabbers*? __________________________

4. How much time will have passed between *Jolly Jabbers*’ start time and *Jodie and the Band*’s start time? __________________________

5. Can you watch both shows on this day? __________________________

6. What television program is playing at the same time as *Weird Wilderness*? _____ ________________________________

7. Do they both last the same amount of time? _______________________
# Setting Elapsed Time

**Name:**

**Directions:** Fill in the missing information. Then draw the hands on the clocks next to each time. Check your work with your clock.

<table>
<thead>
<tr>
<th>Start Time:</th>
<th>Time Elapsed:</th>
<th>End Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>5:00</td>
<td>1 Hour, 30 Minutes</td>
</tr>
<tr>
<td>2.</td>
<td>:</td>
<td>1 Hour</td>
</tr>
<tr>
<td>3.</td>
<td>:</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>4.</td>
<td>1:15</td>
<td>:</td>
</tr>
<tr>
<td>5.</td>
<td>6:15</td>
<td>2 Hours, 15 Minutes</td>
</tr>
</tbody>
</table>
Name: __________________________________________________________

**Directions:** Try each of the following activities using a stopwatch. Write in the start time, the end time, and the amount of time that elapsed during each activity.

<table>
<thead>
<tr>
<th>School Activity</th>
<th>Start Time</th>
<th>End Time</th>
<th>Time Elapsed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Reading a chapter in a book</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Sharpening an unsharpened pencil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Listening to a math lesson</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Passing out a new worksheet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Grading your homework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Wiping the chalkboard clean</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Walking from your desk to the library and back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Playing a game</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Recess</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Taking attendance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Filling in Elapsed Times**

Name: ____________________________________________________________

Directions: Use this table to answer the questions below.

<table>
<thead>
<tr>
<th>A.</th>
<th>B.</th>
<th>C.</th>
<th>D.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Clock A" /></td>
<td><img src="image" alt="Clock B" /></td>
<td><img src="image" alt="Clock C" /></td>
<td><img src="image" alt="Clock D" /></td>
</tr>
</tbody>
</table>

- Elapsed Time: 20 Minutes

<table>
<thead>
<tr>
<th>E.</th>
<th>F.</th>
<th>G.</th>
<th>H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Clock E" /></td>
<td><img src="image" alt="Clock F" /></td>
<td><img src="image" alt="Clock G" /></td>
<td><img src="image" alt="Clock H" /></td>
</tr>
</tbody>
</table>

- Elapsed Time: 2 Hours, 10 Minutes

- Elapsed Time: 1 Hour, 30 Minutes

- Elapsed Time: 45 Minutes

<table>
<thead>
<tr>
<th>I.</th>
<th>J.</th>
<th>K.</th>
<th>L.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Clock I" /></td>
<td><img src="image" alt="Clock J" /></td>
<td><img src="image" alt="Clock K" /></td>
<td><img src="image" alt="Clock L" /></td>
</tr>
</tbody>
</table>

- Elapsed Time: 3 Hours, 15 Minutes

<table>
<thead>
<tr>
<th>M.</th>
<th>N.</th>
<th>O.</th>
<th>P.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Clock M" /></td>
<td><img src="image" alt="Clock N" /></td>
<td><img src="image" alt="Clock O" /></td>
<td><img src="image" alt="Clock P" /></td>
</tr>
</tbody>
</table>

- Elapsed Time: 6 Hours

- Elapsed Time: 40 Minutes

- Elapsed Time: 15 Minutes

1. How much time has elapsed between B. and D.? ____________________________

2. If C. has elapsed from D., what time is it? ____________________________

3. If N. has elapsed from I., what time is it? ____________________________

4. If F. has elapsed from A., what time is it? ____________________________

5. If P. has elapsed from G., what time is it? ____________________________

6. Create your own time sentence using the table above. ____________________________

__________________________________________________________________________________
Answer Key

page 6
1. 3:00
2. 5:00
3. 12:00
4. 10:00
5. 7:00
6. 1:00
7. 9:00
8. 6:00
9. 4:00
10. 2:00

page 7
1.
2.

3.
4.

5.
6.

7.
8.

9.

page 8
1.
2.

3.
4.

5.
6.

7.
8.

9.

page 9
1.
2.

3.
4.

5.
6.

7.
8.

page 10
1. 1:15
2. 5:45
3. 6:15
4. 7:45
5. 2:15
6. 12:45
7. 8:15
8. 3:15
9. 9:45
10. 10:45
11. 12:15

page 11
1. B.
2. G.
3. E.
4. C.
5. A.
6. H.
7. F.
8. D.

page 12
1. 2:00, D.
2. 5:15, E.
3. 4:45, C.
4. 9:30, B.
5. 12:45, A.

page 13
Answers will vary. Compare the answers to “Which activities took longer than 1 minute?” to the times recorded.

page 14
1. A.
2. C.
3. B.

page 15
1. C.
2. F.
3. A.
4. E.
5. D.
6. B.

page 16
1.
2.

3.
4.

5.
6.

7.
8.

9.
Answer Key Continued

page 17
1. B. 2. A.
3. B. 4. B.
5. A. 6. B.
7. B. 8. A.
9. A. 10. A.

page 18
1. 2.
3. 4.
5. 6.

page 19
1. 2.
3. 4.
5. 6.

page 20
1. 1 hour 2. 4 hours
3. 6 hours 4. 1 hour
5. 2 hours 6. 4 hours
7. 2 hours 8. 1 hour

page 21
1. 2.
3. 4.

page 22
1. 3:30 2. 5:30
3. 7:00 4. 8:30
5. 4:30, 5:00 6. 1:30, 2:00
7. 2:30, 3:00

page 23
1. B. 2. C. 3. E.

page 24
1. 1 hour
2. 30 minutes or 1 half-hour
3. 15 minutes or 1 quarter hour
4. 15 minutes or 1 quarter hour
5. 1 hour and 30 minutes or 1 1/2 hours
6. 2 hours
7. 4 hours
8. 1 hour

page 25
1. 11:30, 2 hours
2. 3:00, 45 minutes
3. 2:15, 1 hour
4. 5:30, 15 minutes
5. 4:30, 2 minutes

page 26
1. 5 minutes
2. 10 minutes
3. 15 minutes
4. 25 minutes
5. 20 minutes
6. 20 minutes
7. 1 hour and 35 minutes
8. 45 minutes

page 27
1. 4:00 2. 2 hours
3. 1 hour 4. 9:30
5. 9:15 6. 6:00
7. 4 hours 8. 11:30

page 28
1. 1 hour
2. 11:00
3. 1 hour and 30 minutes
4. 1 hour
5. no
6. Jolly Jabbers
7. no

page 29
Check that the drawn clock hands show the correct times.
1. 6:30 2. 1:15
3. 2:50 4. 45 minutes
5. 8:30

page 30
Answers will vary. Compare Time Elapsed answers to the start and end times recorded.