

## 4-7

## Measuring Elapsed Time

## What You'll Learn

**OBJECTIVE 1** To add and subtract measures of time

**OBJECTIVE 2** To read and use schedules

## ... And Why

To read bus schedules, as in Example 4

## Check Skills You'll Need

For help, go to Lesson 3-4.

Write an equivalent fraction with a denominator of 60.

- $\frac{4}{15} = \frac{16}{60}$
- $\frac{3}{12} = \frac{15}{60}$
- $\frac{1}{5} = \frac{12}{60}$
- $\frac{2}{6} = \frac{20}{60}$
- $\frac{2}{3} = \frac{40}{60}$
- $\frac{7}{12} = \frac{35}{60}$

**New Vocabulary** • elapsed time

## OBJECTIVE

1

## Adding and Subtracting Measures of Time

**TEXT** Interactive lesson includes instant self-check, tutorials, and activities.

## Investigation: Exploring Elapsed Time

## Reading Math

You can think of 6:30 A.M. as "6 hours and 30 minutes after midnight."

3.



- What time does Clock 1 show? **6:30**
  - What time does Clock 2 show? **7:10**
- Reasoning** What is the least amount of time that has passed between the times shown on Clock 1 and Clock 2? **40 min**

Clock 1



Clock 2



- Draw a third clock showing the time 40 minutes after Clock 2. **See left.**

The standard unit of time is the second (s). You use equivalent units to change from one unit of time to another.

Units of Time	
second (s)	
minute (min)	1 min = 60 s
hour (h)	1 h = 60 min
day	1 day = 24 h
week (wk)	1 wk = 7 days
year (yr)	1 yr ≈ 52 wk

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## Ongoing Assessment and Intervention

## Before the Lesson

Diagnose prerequisite skills using:

- Check Skills You'll Need

## During the Lesson

Monitor progress using:

- Check Understanding
- Additional Examples
- Test Prep

## After the Lesson

Assess knowledge using:

- Lesson Quiz
- Computer Test Generator CD
- Chapter Checkpoint 2 (p. 205)

## 4-7

## 1. Plan

## Lesson Preview

## Check Skills You'll Need

## Finding Equivalent Fractions

Lesson 3-4: Example 1. Extra Practice p. 644.

## Lesson Resources

## Teaching Resources

Practice, Reteaching, Enrichment  
Checkpoint Quiz 2

## Reaching All Students

Practice Workbook 4-7  
Spanish Practice Workbook 4-7  
Reading and Math Literacy 4C  
Spanish Reading and Math  
Literacy 4C  
Spanish Checkpoint Quiz 2  
Guided Problem Solving 4-7

## Presentation Assistant Plus!

Transparencies

- Check Skills You'll Need 4-7
- Problem of the Day 4-7
- Additional Examples 4-7
- Student Edition Answers 4-7
- Lesson Quiz 4-7

PH Presentation Pro CD-ROM 4-7

## ASSESSMENT SYSTEM

Checkpoint Quiz 2  
Computer Test Generator CD

## Technology

Resource Pro® CD-ROM  
Computer Test Generator CD  
PH Presentation Pro CD-ROM

## www.PHSchool.com

Student Site

- Teacher Web Code: aak-5500
- Self-grading Lesson Quiz

PH SuccessNet Teacher Center

- Lesson Planner
- Resources

Plus **TEXT**

## 2. Teach

Professional Development

### Math Background

*Elapsed time* is the time between two events. To calculate elapsed time, subtract one unit of time from another. Often you need to change from one unit of time to another unit before subtracting. For example, in order to change from years to months, multiply the number of years by 12.

### Teaching Notes

#### Investigation (Optional)

Elicit the fact that the hour hand on a clock moves slowly from one hour to the next in 60 minutes. Furthermore, the minute hand makes one complete rotation in one hour. Ask:

- How many hours does it take the hour hand to make one complete rotation on a clock?  
**12 hours**
- How many rotations does the minute hand make in 12 hours?  
**12 rotations**

#### 2 EXAMPLE Inclusion

Demonstrate elapsed time on a clock face that has movable hands. Have volunteers take turns moving the hands on the clock to show the passing of time from 1:45 P.M. to 3:27 P.M.

#### 3 EXAMPLE Teaching Tip

You might want students to break the problem into two separate parts relative to 12:00 noon as shown below.

$$\begin{aligned} 8:15 &\rightarrow 12:00 \text{ A.M.} = 3 \text{ h } 45 \text{ min} \\ 12:00 &\rightarrow 3:25 \text{ P.M.} = \underline{3 \text{ h } 25 \text{ min}} \\ \text{Add the parts} &\rightarrow 7 \text{ h } 10 \text{ min} \end{aligned}$$

#### Diversity

Have students familiar with the 24-hour clock (military time) share their knowledge with the class.

#### 4 EXAMPLE Error Prevention

Make sure students understand that "... " means buses leave every 30 minutes between 7:50 A.M. and 11:20 P.M.

#### 1 EXAMPLE Writing Equivalent Times

How many seconds are equivalent to 1 minute 20 seconds?

$$\begin{aligned} 1 \text{ minute } 20 \text{ seconds} &= 60 \text{ s} + 20 \text{ s} && \leftarrow \text{One minute is equivalent to 60 seconds.} \\ &= 80 \text{ s} && \leftarrow \text{Simplify.} \end{aligned}$$

- So, 1 minute 20 seconds is equivalent to 80 seconds.

#### Check Understanding 1 How many days are equivalent to 4 weeks 3 days? **31 days**

The time between two events is called **elapsed time**. To find elapsed time, you can subtract hours and minutes.

#### 2 EXAMPLE Calculating Elapsed Time

Find the elapsed time between 1:45 P.M. and 5:27 P.M.

To find the elapsed time, subtract 1:45 from 5:27.

$$\begin{aligned} 5:27 &\rightarrow 5 \text{ h } 27 \text{ min} \rightarrow \underline{4 \text{ h } 87 \text{ min}} && \leftarrow \text{Rename 5 h 27 min as 4 h 87 min.} \\ 1:45 &\rightarrow 1 \text{ h } 45 \text{ min} \rightarrow \underline{- 1 \text{ h } 45 \text{ min}} \\ &3 \text{ h } 42 \text{ min} && \leftarrow \text{Subtract.} \end{aligned}$$

- The elapsed time is 3 hours 42 minutes.

#### Check Understanding 2 Find the elapsed time between 7:25 A.M. and 8:12 A.M. **47 min**

To find elapsed time between a morning and an afternoon or between an evening and the next morning, add 12 hours to the later time.

#### 3 EXAMPLE Real-World Problem Solving

**School** How long is a school day that goes from 8:15 A.M. to 3:25 P.M.?

Since 3:25 P.M. is later than 8:15 A.M., you need to add 12 hours to 3:25.

$$\begin{aligned} 3:25 &\rightarrow \begin{array}{r} 3 \text{ h } 25 \text{ min} \\ + 12 \text{ h} \\ \hline 15 \text{ h } 25 \text{ min} \end{array} && \leftarrow \text{Add 12 to the later time.} \\ 15:25 &\rightarrow 15 \text{ h } 25 \text{ min} \\ 8:15 &\rightarrow \underline{- 8 \text{ h } 15 \text{ min}} && \leftarrow \text{Subtract the earlier time.} \\ &7 \text{ h } 10 \text{ min} && \leftarrow \text{Subtract.} \end{aligned}$$

- The school day that goes from 8:15 A.M. to 3:25 P.M. is 7 h 10 min long.

#### Check Understanding 3

- Find the elapsed time between 10:00 A.M. and 7:15 P.M. **9 h 15 min**
- Reasoning** Explain why you add 12 in Example 3. **Answers may vary. Sample: Adding 12 hours makes both times the hours elapsed since midnight, so they can be subtracted.**



### Reaching All Students

**Below Level** Have students write what the time will be 30 minutes later.

10:00 A.M. **10:30 A.M.**  
2:07 P.M. **2:37 P.M.**  
5:45 A.M. **6:15 A.M.**

**Advanced Learners** Which is longer—1,000,000 minutes or 1,000 days? Explain. **1,000 days; there are 1,440 minutes in one day (24 h × 60 min per h), and 1,440,000 minutes in 1,000 days.**

**Inclusion**  
See note on page 202.  
**Diversity**  
See note on page 202.

You think about elapsed time when reading and using schedules.

#### 4 EXAMPLE Reading and Using a Schedule

Yellow Bus Line Buses Run Every 30 Minutes Monday–Friday	
Leave Willson St.	Arrive Kagy Blvd.
7:20 A.M.	7:45 A.M.
7:50 A.M.	8:15 A.M.
...	...
11:20 P.M.	11:45 P.M.

**Bus Schedules** Use the bus schedule at the left. Suppose you arrive at the Willson Street bus stop 5 minutes after the 11:50 A.M. bus leaves.

- a. How long will you wait for the next bus?

The bus runs every 30 minutes. You will wait  $30 - 5$  min, or 25 minutes.


- b. How long is the bus ride?

Using the first run, the elapsed time is  $7:45 \text{ A.M.} - 7:20 \text{ A.M.}$ , or 25 min.

- c. When will you arrive at Kagy Boulevard?

$$\begin{aligned} 11:50 + 30 \text{ min} &= 11:80 \text{ min} && \leftarrow \text{Find when the next bus leaves.} \\ &= 11 \text{ h } 80 \text{ min} && \leftarrow \text{Since 80 min is more than 1 h, rename.} \\ &= 12 \text{ h } 20 \text{ min} \end{aligned}$$

The next bus will leave at 12:20 P.M. The trip takes 25 minutes. So, you will arrive at  $12:20 + 25 \text{ min}$  or 12:45 P.M.

-  **Check Understanding** 4 It is a 5-minute walk from the bus stop on Kagy Boulevard to a gym. Which bus should you take from Willson Street to get to the gym by 6:00 P.M.? **5:20 P.M.**

## EXERCISES

 For more practice, see *Extra Practice*.

### A Practice by Example

For each time, write an equivalent time using only the smaller unit.

**Example 1**  
(page 202)

1. 1 h 30 min **90 min**    2. 2 min 59 s **179 s**    3. 8 h 2 min **482 min**  
4. 5 min 36 s **336 s**    5. 3 wk 5 days **26 d**    6. 2 days 17 h **65 h**

**Example 2**  
(page 202)

Find the elapsed time between each pair of times.

7. from 2:25 P.M. to 3:35 P.M. **1 h 10 min**    8. from 8:25 A.M. to 10:52 A.M. **2 h 27 min**  
9. from 5:25 P.M. to 11:11 P.M. **5 h 46 min**    10. from 9:28 A.M. to 11:07 A.M. **1 h 39 min**

**Example 3**  
(page 202)

11. from 11:25 A.M. to 2:45 P.M. **3 h 20 min**    12. from 8:30 P.M. to 7:39 A.M. **11 h 9 min**  
13. How long is a car parked on the street if it arrives at 10:25 P.M. and leaves at 8:12 A.M.? **9 h 47 min**



## Additional Examples

- How many minutes are equivalent to 1 hr 45 min?  
**105 min**
- Find the elapsed time between 7:25 A.M. and 9:05 A.M. **1 h 40 min**
- Find the elapsed time between 10:15 A.M. and 2:25 P.M. **4 h 10 min**
- You arrive at the Glenmont bus stop at 8:00 A.M. and buy a ticket for the next bus.
  - How long will you wait for the next bus? **10 min.**
  - What time will you arrive at the Reedville bus stop?  
**8:45 A.M.**

Buses Run Every 15 min Monday–Friday	
LEAVE	ARRIVE
Glenmont	Reedville
7:40 A.M.	8:15 A.M.
7:55 A.M.	8:30 A.M.
...	...
9:55 A.M.	10:30 A.M.

## Closure

What is elapsed time? **the time between two events**

# 3. Practice

## Assignment Guide

### 1 Objective 1

- A B** Core 1–13
- C** Extension 23–24

### 2 Objective 2

- A B** Core 14–22
- C** Extension 25

**Test Prep** 26–29

**Mixed Review** 30–35

## Error Prevention!

**Exercises 11–12** Watch for students who neglect to add 12 hours to the later time.

### Practice 4-7 Measuring Elapsed Time

Clark is trying to plan his Saturday. He estimates each activity will take the following times.

Make a schedule for Clark's day if he wakes up at 7:00 A.M. Assume all his activities are done in the given order.

Activity	Amount of Time	Time of Day
1. Get up, eat breakfast	30 min	7:00 A.M. – 7:30 A.M.
2. Mow lawn	1 h	7:30 A.M. – 8:30 A.M.
3. Rake yard	2 h	8:30 A.M. – 10:30 A.M.
4. Wash, wax car	45 min	10:30 A.M. – 11:15 A.M.
5. Walk dog	15 min	11:15 A.M. – 11:30 A.M.
6. Clean room	45 min	11:30 A.M. – 12:15 P.M.
7. Eat lunch	30 min	12:15 P.M. – 12:45 P.M.
8. Shop for school clothes	1 h 30 min	12:45 P.M. – 2:15 P.M.
9. Read book	45 min	2:15 P.M. – 3:00 P.M.
10. Do homework	1 h 15 min	3:00 P.M. – 4:15 P.M.
11. Babysit brother	2 h	4:15 P.M. – 6:15 P.M.
12. Eat supper	45 min	6:15 P.M. – 7:00 P.M.
13. Get ready for party	30 min	7:00 P.M. – 7:30 P.M.
14. Ride to party	20 min	7:30 P.M. – 7:50 P.M.
15. Party	2 h	7:50 P.M. – 9:50 P.M.
16. Ride home	20 min	9:50 P.M. – 10:10 P.M.

Find the elapsed time between each pair of times.

- from 2:12 P.M. to 10:18 P.M. **8 h 6 min**
- from 9:25 A.M. to 8:48 P.M. **11 h 13 min**
- from 6:45 P.M. to 11:24 A.M. **16 h 39 min**
- from 2:55 A.M. to 8:13 A.M. **5 h 18 min**
- from 7:00 P.M. to 8:56 P.M. **1 h 56 min**
- from 8:22 P.M. to 11:47 A.M. **15 h 25 min**
- The movie begins at 7:45 P.M. and lets out at 10:20 P.M. How long is the movie? **2 h 35 min**
- A plane left at 10:45 A.M. and landed at 4:37 P.M. How long was the flight? **5 h 52 min**

### Reteaching 4-7 Measuring Elapsed Time

Find the elapsed time between 6:15 A.M. and 11:10 A.M.

1. Set up as subtraction.	2. Rename 11:10 as 10:70.	3. Subtract.
$\begin{array}{r} 11:10 \\ -6:15 \\ \hline \end{array}$	$\begin{array}{r} 11:10 \rightarrow 10:70 \\ -6:15 \rightarrow -6:15 \\ \hline \end{array}$	$\begin{array}{r} 10:70 \\ -6:15 \\ \hline 4:55 \end{array}$

The elapsed time is 4 hours 55 minutes.

You can find elapsed time from a schedule.

Leave	Arrive
Boston 7:09 A.M.	New York 11:02 A.M.

For travel time, find the elapsed time between 7:09 A.M. and 11:02 A.M.  
11:02 – 7:09 = 3 hours 53 minutes

For each time, write an equivalent time using only the smaller unit.

Example: 4 hours 55 minutes =  $4 \times 60 + 55 = 295$  minutes

- 3 hours 25 minutes **205 min**
- 2 hours 17 minutes **137 min**
- 2 hours 48 minutes **168 min**
- 5 hours 18 minutes **318 min**
- 6 hours 13 minutes **373 min**
- 5 hours 39 minutes **339 min**

Find the elapsed time between each pair of times.

- 6:45 P.M. and 9:20 P.M. **2 h 35 min**
- 9:36 A.M. and 11:50 A.M. **2 h 14 min**
- 5:45 A.M. and 11:30 A.M. **5 h 45 min**
- 3:11 P.M. and 10:40 P.M. **7 h 29 min**
- 8:15 A.M. and 10:09 P.M. **13 h 54 min**
- 1:00 A.M. and 7:28 P.M. **18 h 28 min**

Use the schedule to answer the following questions.

- How much time do you have to get to the game?  
**1 h 20 min**
- How long is the game?  
**2 h 45 min**

Leave for game	6:15 P.M.
Game begins	7:35 P.M.
Game ends	10:20 P.M.

## Example 4 (page 203)

Use the train schedule for Exercises 14–16.



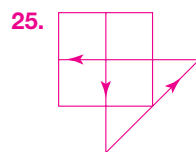
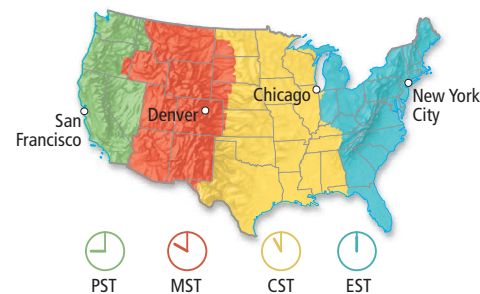
Train Schedule		
Station	Train A	Train B
Fairview	8:15 A.M.	8:42 A.M.
Huntville	8:26 A.M.	8:55 A.M.
Rush City	8:34 A.M.	9:04 A.M.
Grayland	8:45 A.M.	9:19 A.M.

- Answers may vary. Sample: If it is 1:00 A.M. on a Tuesday in the Eastern time zone, it is 10:00 P.M. on Monday in the Pacific time zone.
- 10:45 A.M. leave 1st party  
11:45 A.M. arrive at 2nd party  
12:30 P.M. leave 2nd party  
1:30 P.M. arrive at 3rd party  
2:15 P.M. leave 3rd party

- Which train takes less time to travel from Fairview to Grayland?  
**Train A**
- How long do you wait for the train if you get to Rush City at 8:35 A.M.?  
**29 min**
- How long does it take to get to Grayland from Huntville on Train B?  
**24 min**

## B Apply Your Skills

**Time Zones** The map below shows the time zones in the continental United States. Find the time for each city if it is 12:00 noon in Denver.



25.

- Chicago **1:00 P.M.**
- New York City **2:00 P.M.**
- San Francisco **11:00 A.M.**
- Algebra** What time is it in New York if the time in San Francisco is  $x$ ?  
 **$x + 3$**
- Writing in Math** Explain how it can be Monday in one part of the United States and Tuesday in another part of the United States.  
**See above left.**
- Clowns** A clown wants to perform a 45-minute show at each of three birthday parties on the same Saturday. The first party must begin at 10:00 A.M. and he needs to leave the third party by 2:15 P.M. He wants to allow one hour between each party. Make a schedule for the clown.  
**See above left.**
- Estimation** Estimate each elapsed time.
  - from 1:38 A.M. to 4:50 A.M. **3 h**
  - from 11:49 A.M. to 7:12 P.M. **7 h 20 min**
- Find the elapsed time from Saturday at 7:15 A.M. to Sunday at 3:05 P.M.  
**31 h 50 min**
- Stretch Your Thinking** Draw a square. Then, without lifting your pencil, draw three line segments that divide it into four identical squares.  
**See above left.**

## C Challenge

## 204 Chapter 4 Adding and Subtracting Fractions

**GPS** Use the Guided Problem Solving worksheet with Exercise 22.

- [2] a. 12:15 P.M.  
b. Mix, bake, cool, frost cake; answers may vary. Sample: Yes;

decorate room while the cake bakes and cools.

- Answers may vary. Sample: Start at 12:50 P.M. Mix cake (40 min), decorate room while cake

bakes and cools (80 min), frost cake (20 min), shower and dress (25 min).

[1] incorrect starting time OR incorrect explanation





## Test Prep

### Multiple Choice

26. How many minutes are in 3 h 25 min? **D**  
 A. 28 min      B. 75 min      C. 105 min      D. 205 min
27. What is the elapsed time between 4:25 A.M. and 7:24 A.M.? **G**  
 F. 2 h 1 min      G. 2 h 59 min      H. 3 h 1 min      I. 3 h 59 min
28. Jack has 2 hours of homework. He will take one 30-minute break. To finish by 9:30 P.M., what is the latest time he can begin? **C**  
 A. 6:00 P.M.      B. 6:30 P.M.      C. 7:00 P.M.      D. 7:30 P.M.

### Short Response

29. You make a list of things to do before a party that starts today at 4:00 p.m. **a-c. See margin.**
- If you follow the list in order, at what time should you begin?
  - Which activities must you do in order? Can any be done at the same time? Revise the list.
  - Use the revised list of part (b) to make a new schedule. Allow yourself an extra 25 minutes before the party.

Decorate room (1 h)  
 Mix cake (40 min)  
 Bake cake (35 min)  
 Cool cake (45 min)  
 Frost cake (20 min)  
 Shower and dress (25 min)



**Take It to the NET**  
 Online lesson quiz at  
[www.PHSchool.com](http://www.PHSchool.com)  
 Web Code: aaa-0407

## Mixed Review

### Lesson 2-6

Solve each equation.

30.  $a + 14 = 31$  **17**      31.  $t - 8 = 28$  **36**      32.  $b - 2.4 = 5.1$  **7.5**  
 33.  $9.1 - c = 5.3$  **3.8**      34.  $15 = w + 9$  **6**      35.  $23 = d - 16$  **39**



## Checkpoint Quiz 2

## Lessons 4-4 through 4-7



**TEXT** Instant self-check quiz online and on CD-ROM

Find each sum or difference.

1.  $2\frac{1}{2} + 3\frac{1}{8}$   **$5\frac{5}{8}$**       2.  $9\frac{1}{2} - 4\frac{3}{4}$   **$4\frac{3}{4}$**       3.  $6\frac{1}{3} + 8\frac{1}{2}$   **$14\frac{5}{6}$**       4.  $7\frac{5}{9} - 1\frac{2}{3}$   **$5\frac{8}{9}$**

Solve each equation.

5.  $a + \frac{2}{6} = \frac{5}{6}$   **$\frac{1}{2}$**       6.  $p - \frac{5}{9} = \frac{2}{3}$   **$\frac{12}{9}$**       7.  $\frac{1}{5} + b = \frac{1}{2}$   **$\frac{3}{10}$**       8.  $h + \frac{2}{3} = \frac{12}{15}$   **$\frac{2}{15}$**

9. Find the elapsed time between 8:42 A.M. and 3:29 P.M. **6 h 47 min**

10. Find the elapsed time between 6:35 P.M. and 4:18 A.M. **9 h 43 min**

4-7 Measuring Elapsed Time **205**

## Test Prep

### Resources

For additional practice with a variety of test item formats:

- Test-Prep, p. 213
- Test-Taking Strategies, p. 209
- Test-Taking Strategies With Transparencies

## Alternative Assessment

Each student in a pair writes a time using A.M. or P.M. Partners designate one time as the starting time and the other as the ending time. They work together to find the elapsed time. Have pairs record their work.

## 4. Assess



### Lesson Quiz 4-7

Find the elapsed time.

- from 8:32 A.M. to 11:30 A.M.  
**2 h 58 min**
- from 9:17 A.M. to 7:35 P.M.  
**10 h 18 min**

Trains Run Every 12 min	
LEAVE K St.	ARRIVE Q St.
6:30 A.M.	6:50 A.M.
6:42 A.M.	7:02 A.M.
...	...

- How long is the train ride from K St. to Q St.? **20 min**
- At 8:00 A.M. you arrive at K St. How long until the next train to Q St.? **6 min**



## Chapter Checkpoint

To check understanding of Lessons 4-4 to 4-7:

Checkpoint Quiz 2 (p. 205)



### Teaching Resources

Checkpoint Quiz 2 (also in *Prentice Hall Assessment System*)



### Reaching All Students

Reading and Math Literacy 4C

Spanish versions available

### Reteaching 4-7

Measuring Elapsed Time

Find the elapsed time between 6:15 A.M. and 11:10 A.M.

- Set up as subtraction.
- Rename 11:10 as 10:70.
- Subtract.

$$\begin{array}{r} 11:10 \\ -6:15 \\ \hline \end{array} \qquad \begin{array}{r} 11:10 \rightarrow 10:70 \\ -6:15 \rightarrow -6:15 \\ \hline \end{array} \qquad \begin{array}{r} 10:70 \\ -6:15 \\ \hline 4:55 \end{array}$$

The elapsed time is 4 hours 55 minutes.

You can find elapsed time from a schedule.

Leave	Arrive
Boston 7:09 A.M.	New York 11:02 A.M.

For travel time, find the elapsed time between 7:09 A.M. and 11:02 A.M.  
 $11:02 - 7:09 = 3$  hours 53 minutes

For each time, write an equivalent time using only the smaller unit.

Example: 4 hours 55 minutes =  $4 \times 60 + 55 = 295$  minutes

- 3 hours 25 minutes      2. 2 hours 17 minutes      3. 2 hours 48 minutes  
**205 min**      **137 min**      **168 min**
4. 5 hours 18 minutes      5. 6 hours 13 minutes      6. 5 hours 39 minutes  
**318 min**      **373 min**      **339 min**

Find the elapsed time between each pair of times.

- 6:45 P.M. and 9:20 P.M.      8. 9:36 A.M. and 11:50 A.M.  
**2 h 35 min**      **2 h 14 min**
- 5:45 A.M. and 11:30 A.M.      10. 3:11 P.M. and 10:40 P.M.  
**5 h 45 min**      **7 h 29 min**
- 8:15 A.M. and 10:09 P.M.      12. 1:00 A.M. and 7:28 P.M.  
**13 h 54 min**      **18 h 28 min**

Use the schedule to answer the following questions.

- How much time do you have to get to the game?  
**1 h 20 min**
- How long is the game?  
**2 h 45 min**

Leave for game	6:15 P.M.
Game begins	7:35 P.M.
Game ends	10:20 P.M.