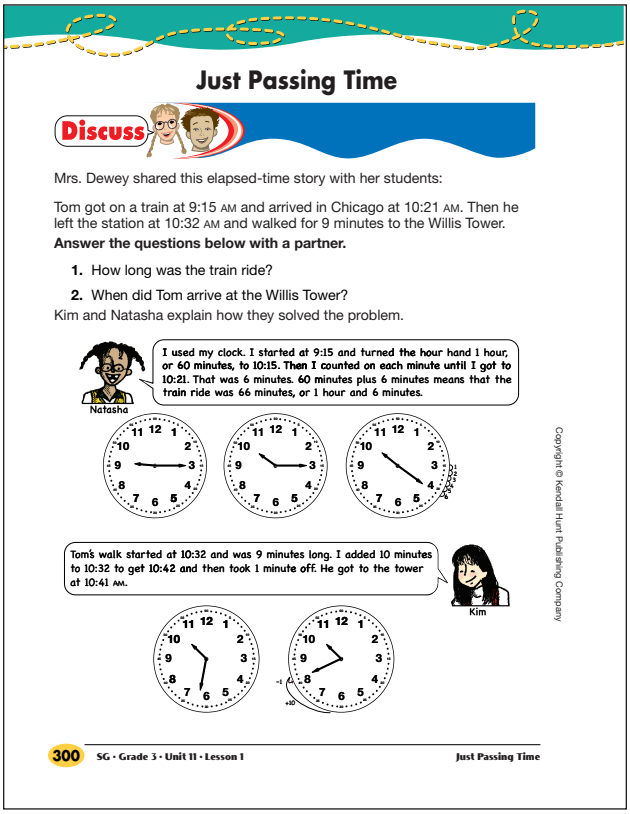

Just Passing Time

Discuss

Mrs. Dewey shared this elapsed-time story with her students:

Tom got on a train at 9:15 AM and arrived in Chicago at 10:21 AM. Then he left the station at 10:32 AM and walked for 9 minutes to the Willis Tower.

Answer the questions below with a partner.

1. How long was the train ride?
2. When did Tom arrive at the Willis Tower?

Kim and Natasha explain how they solved the problem.

Natasha: I used my clock. I started at 9:15 and turned the hour hand 1 hour, or 60 minutes, to 10:15. Then I counted on each minute until I got to 10:21. That was 6 minutes. 60 minutes plus 6 minutes means that the train ride was 66 minutes, or 1 hour and 6 minutes.

Kim: Tom's walk started at 10:32 and was 9 minutes long. I added 10 minutes to 10:32 to get 10:42 and then took 1 minute off. He got to the tower at 10:41 AM.

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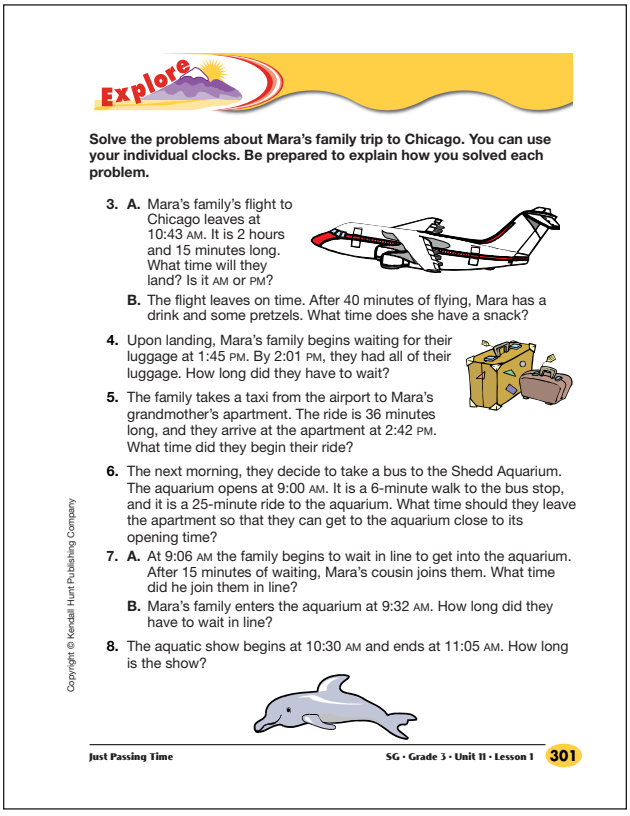
300 SG • Grade 3 • Unit 11 • Lesson 1 Just Passing Time

Student Guide - Page 300



Explore

Solve the problems about Mara's family trip to Chicago. You can use your individual clocks. Be prepared to explain how you solved each problem.

3. **A.** Mara's family's flight to Chicago leaves at 10:43 AM. It is 2 hours and 15 minutes long. What time will they land? Is it AM or PM?

   B. The flight leaves on time. After 40 minutes of flying, Mara has a drink and some pretzels. What time does she have a snack?

4. Upon landing, Mara's family begins waiting for their luggage at 1:45 PM. By 2:01 PM, they had all of their luggage. How long did they have to wait?
5. The family takes a taxi from the airport to Mara's grandmother's apartment. The ride is 36 minutes long, and they arrive at the apartment at 2:42 PM. What time did they begin their ride?
6. The next morning, they decide to take a bus to the Shedd Aquarium. The aquarium opens at 9:00 AM. It is a 6-minute walk to the bus stop, and it is a 25-minute ride to the aquarium. What time should they leave the apartment so that they can get to the aquarium close to its opening time?
7. **A.** At 9:06 AM the family begins to wait in line to get into the aquarium. After 15 minutes of waiting, Mara's cousin joins them. What time did he join them in line?

   B. Mara's family enters the aquarium at 9:32 AM. How long did they have to wait in line?

8. The aquatic show begins at 10:30 AM and ends at 11:05 AM. How long is the show?

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Just Passing Time SG • Grade 3 • Unit 11 • Lesson 1 301

Student Guide - Page 301

Student Guide

Just Passing Time (SG pp. 300–302)
Questions 1–16

1. 66 minutes or 1 hour and 6 minutes
2. 10:41 AM
3. **A.** 12:58 PM
   B. 11:23 AM
4. 16 minutes
5. 2:06 PM
6. 8:29 AM
7. **A.** 9:21 AM
   B. 26 minutes
8. 35 minutes

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9. A. 1:00 PM

B. 65 minutes or 1 hour and 5 minutes

10. 45 minutes

11. 5:13 PM

12. A. 7:07 PM

B. 32 minutes

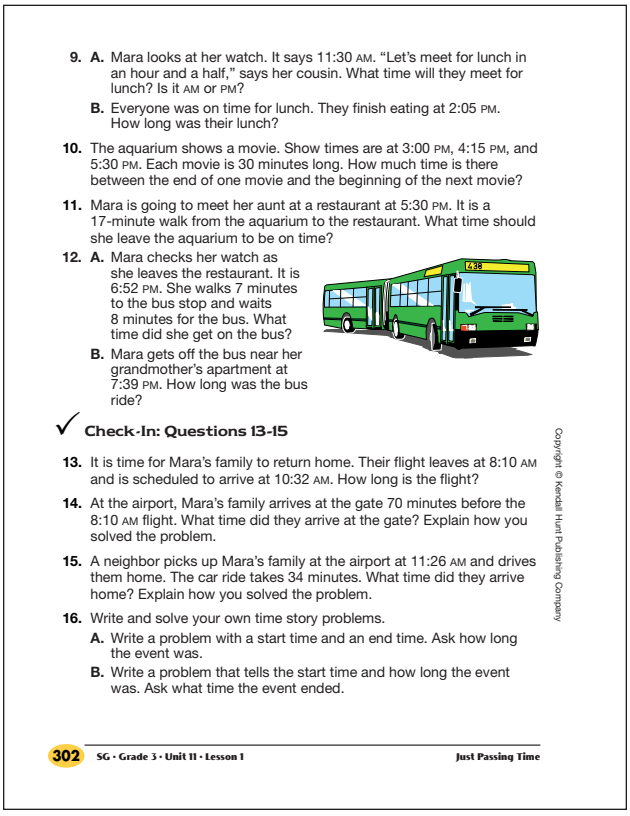
13. 142 minutes or 2 hours and 22 minutes

14. 7:00 AM; Explanations will vary. Possible response: I know that 70 minutes is an hour and 10 minutes. I started at 8:10 and took 1 hour off to 7:10. Then I took 10 more minutes off.

15. 12:00 PM; Explanations will vary. Possible response: I used my clock. I started at 11:26 and moved the minute hand 4 minutes to 11:30. Then I added a half hour.

16. A. Students' stories will vary. Sample story: Mara's family went to the zoo at 10:35 AM. They left the zoo at 2:50 PM. How long did they stay at the zoo? (4 hours and 15 minutes)

B. Students' stories will vary. Sample story: Mara's family went to the museum Saturday. They got there at 9:15 AM and stayed for 2 hours and 15 minutes. What time did they leave the museum? (11:30 AM)



9. **A.** Mara looks at her watch. It says 11:30 AM. "Let's meet for lunch in an hour and a half," says her cousin. What time will they meet for lunch? Is it AM or PM?

B. Everyone was on time for lunch. They finish eating at 2:05 PM. How long was their lunch?

10. The aquarium shows a movie. Show times are at 3:00 PM, 4:15 PM, and 5:30 PM. Each movie is 30 minutes long. How much time is there between the end of one movie and the beginning of the next movie?

11. Mara is going to meet her aunt at a restaurant at 5:30 PM. It is a 17-minute walk from the aquarium to the restaurant. What time should she leave the aquarium to be on time?

12. **A.** Mara checks her watch as she leaves the restaurant. It is 6:52 PM. She walks 7 minutes to the bus stop and waits 8 minutes for the bus. What time did she get on the bus?

B. Mara gets off the bus near her grandmother's apartment at 7:39 PM. How long was the bus ride?

✓ **Check-In: Questions 13-15**

13. It is time for Mara's family to return home. Their flight leaves at 8:10 AM and is scheduled to arrive at 10:32 AM. How long is the flight?

14. At the airport, Mara's family arrives at the gate 70 minutes before the 8:10 AM flight. What time did they arrive at the gate? Explain how you solved the problem.

15. A neighbor picks up Mara's family at the airport at 11:26 AM and drives them home. The car ride takes 34 minutes. What time did they arrive home? Explain how you solved the problem.

16. Write and solve your own time story problems.

A. Write a problem with a start time and an end time. Ask how long the event was.

B. Write a problem that tells the start time and how long the event was. Ask what time the event ended.

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302 SG • Grade 3 • Unit 11 • Lesson 1 Just Passing Time

***Student Guide* - Page 302**

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