

Name \_\_\_\_\_

## PROBLEM SOLVING

## Lesson 10.5

## Problem Solving • Time Intervals

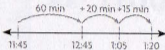


**COMMON CORE STANDARD—3.MD.1**  
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Solve each problem. Show your work.

Check students' work.

1. Hannah wants to meet her friends downtown. Before leaving home, she does chores for 60 minutes and eats lunch for 20 minutes. The walk downtown takes 15 minutes. Hannah starts her chores at 11:45 A.M. At what time does she meet her friends?



1:20 P.M.

2. Katie practiced the flute for 45 minutes. Then she ate a snack for 15 minutes. Next, she watched television for 30 minutes, until 6:00 P.M. At what time did Katie start practicing the flute?

4:30 P.M.

3. Nick gets out of school at 2:25 P.M. He has a 15-minute ride home on the bus. Next, he goes on a 30-minute bike ride. Then he spends 55 minutes doing homework. At what time does Nick finish his homework?

4:05 P.M.

4. The third-grade class is going on a field trip by bus to the museum. The bus leaves the school at 9:45 A.M. The bus ride takes 47 minutes. At what time does the bus arrive at the museum?

10:32 A.M.

## Lesson Check (3.MD.1)

1. Gloria went to the mall and spent 50 minutes shopping. Then she had lunch for 30 minutes. If Gloria arrived at the mall at 11:00 A.M., at what time did she finish lunch?
2. The ball game begins at 2:00 P.M. It takes Ying 30 minutes to get to the ballpark. At what time should Ying leave home to get to the game 30 minutes before it starts?

12:20 P.M.

1:00 P.M.

## Spiral Review (3.OA.2, 3.OA.4, 3.NBT.2, 3.NF.3)

3. Write the fractions  $\frac{2}{4}$ ,  $\frac{2}{8}$ , and  $\frac{2}{6}$  in order from least to greatest.
4. Find the unknown factor.

$$6 \times \square = 36$$

 $\frac{2}{8}, \frac{2}{6}, \frac{2}{4}$ 

6

5. There were 405 books on the library shelf. Some books were checked out. Now there are 215 books left on the shelf. How many books were checked out?
6. Savannah has 48 photos. She places 8 photos on each page of her photo album. How many pages in the album does she use?

190 books

6 pages