NAME _____ DATE _____ PERIOD _____

Lesson 7 Homework Practice

A

Ratio and Rate Problems

Solve.

1. **MAMMALS** A pronghorn antelope can travel 105 miles in 3 hours. If it continued traveling at the same speed, how far could a pronghorn travel in 11 hours?

2. **BIKES** Out of 32 students in a class, 5 said they ride their bikes to school. Based on these results, how many of the 800 students in the school ride their bikes to school?

3. **MEAT** Hamburger sells for 3 pounds for $6. If Samantha buys 10 pounds of hamburger, how much will she pay?

4. **FOOD** If 24 extra large cans of soup will serve 96 people, how many cans should Ann buy to serve 28 people?

5. **BIRDS** The ruby-throated hummingbird has a wing beat of about 200 beats per second. About how many wing beats would a hummingbird have in 3 minutes?

Use the table to answer questions 6–9. The table shows the vehicles that passed Luann on the highway.

Types of Vehicles	Number of Vehicles
Car	6
Truck	10
SUV	14
Minivan	15

6. At this rate, how many minivans would pass Luann if 60 vehicles passed her?

7. At this rate, how many trucks would pass Luann if 90 vehicles passed her?

8. If 150 vehicles passed Luann, how many more minivans than cars would you expect to pass her? Assume the rate continues.

9. Luann predicted that if a certain number of vehicles passed her by, 42 of them would be SUVs. What was that certain number of vehicles she had in mind?

B

NAME _____ DATE _____ PERIOD _____

Lesson 7 Challenge

Ratio and Rate Problems

1. The world's fastest insect is the dragonfly, which can fly up to 36 miles per hour. At this rate, how long would it take a dragonfly to travel 54 miles?

2. If 15 pies will serve 120 people, how many pies are needed for 152 people?

3. Leonardo recorded his speed while skateboarding and determined he was traveling 18 feet per second. How many feet could he travel in nine minutes?

4. **BIRDS** The ruby-throated hummingbird has a wing beat of about 200 beats per second. About how many wing beats would a hummingbird have in 13 minutes?

Use the table to answer questions 5–8. The table shows the vehicles that passed Luann on the highway.

Types of Vehicles	Number of Vehicles
Car	6
Truck	10
SUV	14
Minivan	15

5. At this rate, how many minivans would pass Luann if 60 vehicles passed her?

6. At this rate, how many trucks would pass Luann if 90 vehicles passed her?

7. If 150 vehicles passed Luann, how many more minivans than cars would you expect to pass her? Assume the rate continues.

8. Luann predicted that if a certain number of vehicles passed her by, 42 of them would be SUVs. What was that certain number of vehicles she had in mind?