Name

5-4A Lesson Master

Questions on SPUR Objectives See pages 320–323 for objectives.

HEEE	Objective	
USES	Dojective	Г

- 1. The speed of light in a vacuum is 299,792,458 meters per second. In this situation, what is the meaning of the reciprocal of the given rate?
- 2. On an average day, Leo drinks 2 liters of water. Use the conversion 1 liter ≈ 0.26 gallons to calculate how many gallons of water Leo drinks, on average, every week.
- 3. Alexander can solve 2 long division problems in three minutes. Alexander's brother, Vladimir, is $1\frac{1}{2}$ times as fast. How many long division problems can Vladimir solve in an hour?
- 4. Sophia can run 60 meters in ten seconds. What is her speed in kilometers per hour?
- **5.** On average a human blinks 600 times in an hour. How many seconds, on average, pass between each blink?
- 6. The density of gold is 19,300 kilograms per cubic meter. This means that every cubic meter of gold weighs 19,300 kilograms. What is the volume of 7 kilograms of gold?
- 7. Huey can complete a 35-foot obstacle course with an egg balanced on his nose in two minutes. Duey is $\frac{3}{4}$ as fast as Huey. On average, what is Duey's speed on the obstacle course?
- **8.** The speedometer in Guy's car shows *y* miles per hour. After converting this speed into kilometers per hour, he finds that he is going *z* kilometers per hour. Which number is greater, *y* or *z*?
- 9. Anna's car can be driven 44 miles per gallon of gas. If she buys gas for \$3.06 a gallon, how much will she have to pay for gas on a 500 mile trip?
- **10.** A doctor instructs a patient to take *p* pills at regular intervals for *n* days. How many hours should the patient wait between each pill?