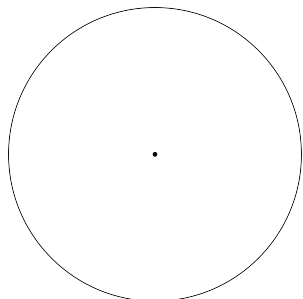


## Lesson 2 Practice Problems

1. A cyclist rode 3.75 miles in 0.3 hours.
  - a. How fast was she going in miles per hour?
  
  
  - b. At that rate, how long will it take her to go 4.5 miles?
  
2. A recipe for sparkling grape juice calls for  $1\frac{1}{2}$  quarts of sparkling water and  $\frac{3}{4}$  quart of grape juice.
  - a. How much sparkling water would you need to mix with 9 quarts of grape juice?
  
  
  - b. How much grape juice would you need to mix with  $\frac{15}{4}$  quarts of sparkling water?
  
  
  - c. How much of each ingredient would you need to make 100 quarts of sparkling grape juice?
  
3. At a deli counter,
  - Someone bought  $1\frac{3}{4}$  pounds of ham for \$14.50.
  - Someone bought  $2\frac{1}{2}$  pounds of turkey for \$26.25.
  - Someone bought  $\frac{3}{8}$  pounds of roast beef for \$5.50.

Which meat is the least expensive per pound? Which meat is the most expensive per pound? Explain how you know.

4. a. Draw a scaled copy of the circle using a scale factor of 2.



- b. How does the circumference of the scaled copy compare to the circumference of the original circle?
- c. How does the area of the scaled copy compare to the area of the original circle?

(From Unit 3, Lesson 10.)

5. Jada has a scale map of Kansas that fits on a page in her book. The page is 5 inches by 8 inches. Kansas is about 210 miles by 410 miles. Select **all** scales that could be a scale of the map. (There are 2.54 centimeters in an inch.)
- A. 1 in to 1 mi
  - B. 1 cm to 1 km
  - C. 1 in to 10 mi
  - D. 1 ft to 100 mi
  - E. 1 cm to 200 km
  - F. 1 in to 100 mi
  - G. 1 cm to 1000 km

(From Unit 1, Lesson 11.)