1. The following chart lists the circumference and diameter of several circular objects. Complete the chart using the following directions.
   a. Find the ratio of the circumference to the diameter of each object using division (C ÷ d). Round each answer to two decimal places and record it in the last column of the chart.
   b. Find three more circular objects and record each object in the blank rows at the bottom of the chart. Measure the circumference and diameter of each object you found and record the measurements in the appropriate column. Do not measure the diameter and compute the circumference. If you do not have a tape measure, you may want to use a string to help you measure the circumference.
   c. Find the ratio of the circumference to the diameter using division (C ÷ d) and record the results in the last column.
   d. Compare your results to the results found in the video.

Object	Circumference	Diameter	Ratio of C to d
basketball hoop	1.41 m	0.45 m	
penny	59.85 mm	19.05 mm	
soccer field center circle	57.49 m	18.30 m	

2. Emily owns a circular trampoline that has a diameter of 12 feet. She needs to replace the safety net around the trampoline. How long must the netting be to completely surround the trampoline?

3. While attending summer camp, Hamish and Braden took a walk around a small circular lake. The distance around the lake was 5.5 km. The next day they swam across the lake. If they swam across the widest part of the lake, how far did they swim?

4. College Town Pizza sells two sizes of pizzas, individual and family size. The individual pizza has a diameter of 8 inches and the family size pizza has a diameter of 16 inches. Find the area of each pizza.

5. A garden sprinkler advertises that it waters a circular region covering 336 to 400 square feet. Anton reseeded a circular portion of his lawn and needs to water it. The diameter of this newly seeded lawn is 20 feet. If the advertised sprinkler is placed in the center of the seeded lawn, will Anton have to move the sprinkler in order to water the entire section of new grass?