Measuring Circles Exercise Set 2

1. Jonah measured the diameter and circumference of several circular objects and recorded his measurements in the table.

object	diameter (cm)	circumference (cm)
half dollar coin	3	10
flying disc	23	28
jar lid	8	25
flower pot	15	48

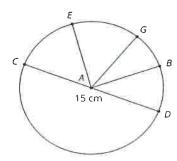
One of his measurements is inaccurate (although he did GREAT on the rest! Nice work Jonah!). Which measurement is it? Explain how you know.

The measurement for the flying disc. It should be about 3 times the diameter

2. Complete the table. Use one of the approximate values for π discussed in class (for example 3.14, $\frac{22}{7}$, 3.1416). Explain or show your reasoning.

object	diameter	circumference		
hula hoop	35 in	loin		
circular pond	177ft	556 ft		
magnifying glass	5.2 cm	16 cm		
car tire	22.8 in	71.6 in		
1 4 2 4				

3. *A* is the center of the circle, and the length of *CD* is 15 centimeters.

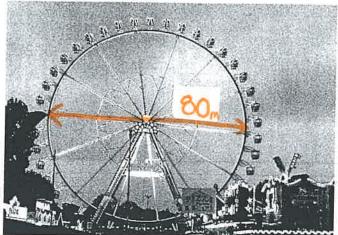


- a. Name a segment that is a radius. How long is it? 7.5cm AC, AD, AB, AE, AG
- b. Name a segment that is a diameter. How long is it?

CD

15cm

Here is a picture of a Ferris wheel. It has a diameter of 80 meters. 4.



On the picture, draw and label a diameter.

How far does a rider travel in one complete rotation around the Ferris wheel? Girconference

Identify each measurement as the diameter, radius, or circumference of the circular 5. object and circle the matching part. Then, identify the measure of each part.

The length of the minute hand on a clock is 5 in. a.

Diameter: 10:0

Circumference: 310

Radius:

b. The distance across a sink drain is 3.8 cm.

Diameter:

Circumference: 12cm Radius: 19cm

The tires on a mining truck are 14 ft tall. C.

Diameter:

Circumference: 444 Radius: 7ft

The fence around a circular pool is 75 ft long.

Diameter: 24+1 Circumference:

Radius: 12ft

The distance from the tip of a slice of pizza to the crust is 7 in. e.

Diameter: 4

Circumference: 44 Radius:

f. Breaking a cookie in half creates a straight side 10 cm long.

Diameter:

Circumference: 31 cm Radius: 5cm

The length of the metal rim around a glass lens is 190 mm. g.

Diameter: Circumference:

Radius: 30mm

From the center to the edge of a DVD measures 60 mm.

Diameter: 20mm Circumference: 380mm Radius:

