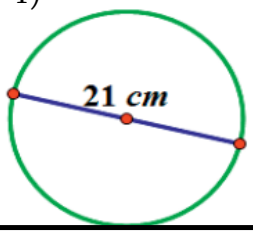
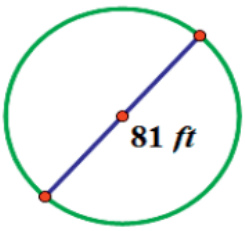
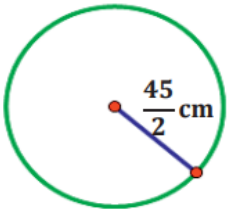
Grade 7 M3 L13, 14, 15: Problem Set

Find the area of each circle. Round to the nearest TENTHS place (.0)

1)







Formulas

$A = \pi r^2$

$C = 2\pi r$

$C = \pi d$

2. A circle has a diameter of 20 inches.

   a. Find the exact area, and find an approximate area using $\pi \approx 3.14$.

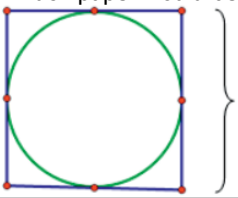
   b. What is the circumference of the circle using $\pi \approx 3.14$?

3. A circle has a diameter of 11 inches.

   a. Find the exact area and an approximate area using $\pi \approx 3.14$.

   b. What is the circumference of the circle using $\pi \approx 3.14$?

4. Using the figure below, find the area of the circle. Then, if the circle was cut out of the square, how much paper would be wasted?



Show all work. You may use a calculator.