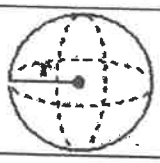
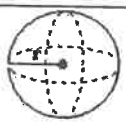
The diameter of the basketball rim is 18 inches for all levels of competition for both men's and women's leagues.

The radius of a men's basketball is approximately 4.8 inches.



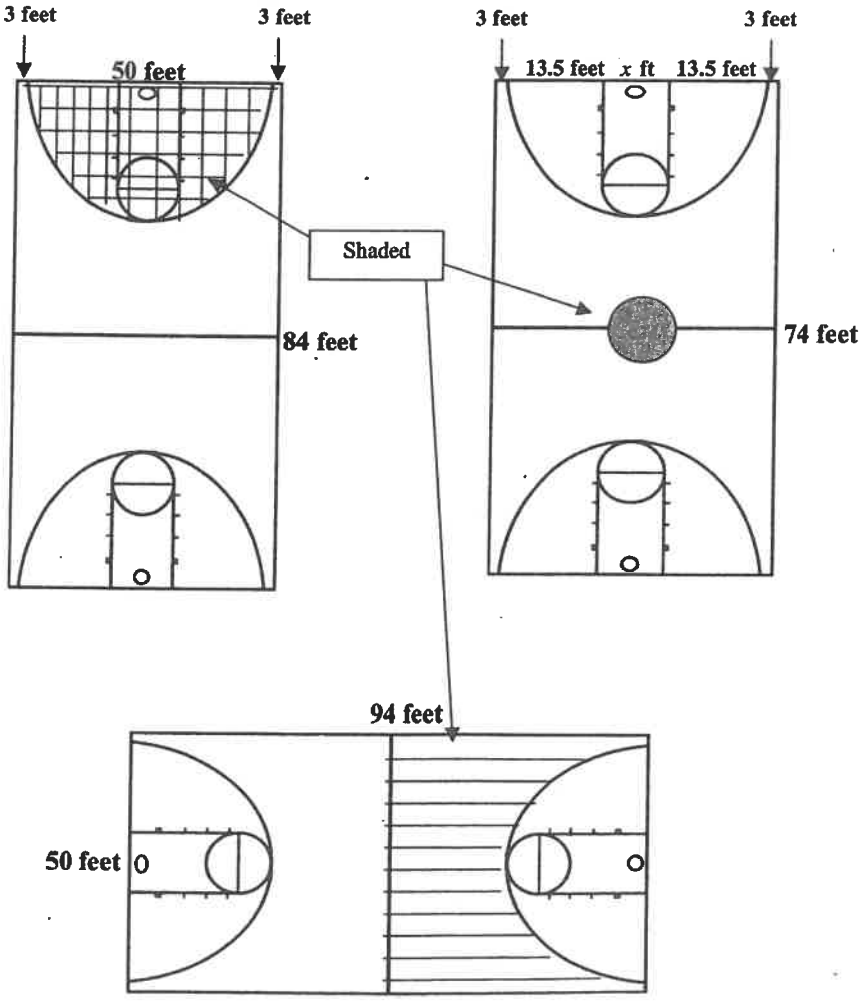
The radius of a women's basketball is approximately $4\frac{1}{8}$ inches.

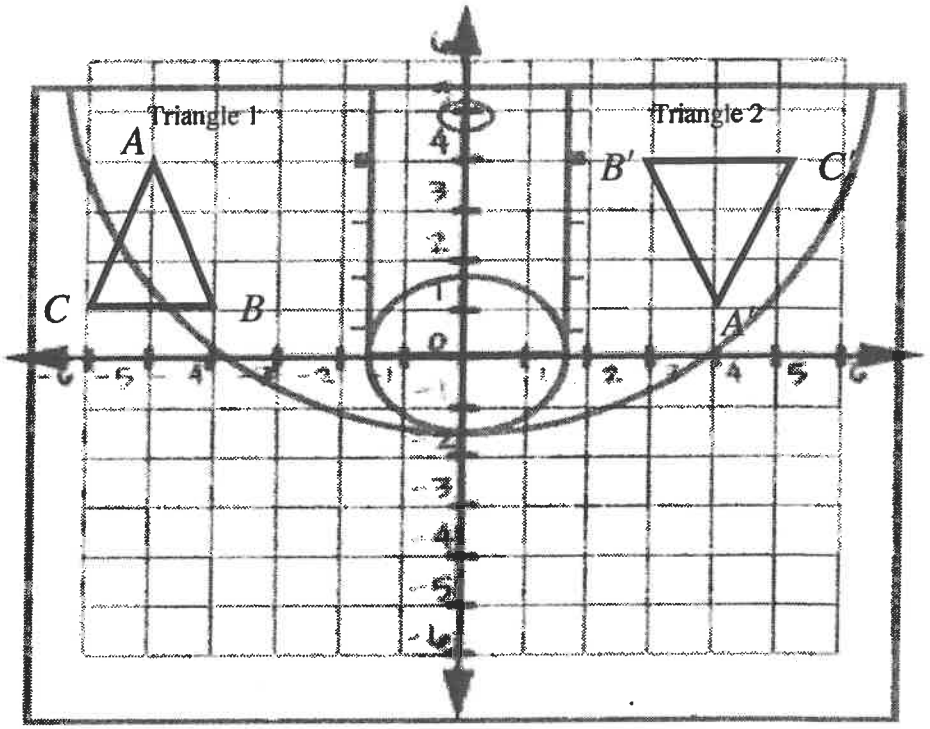


Use the data above to answer the questions.

1. Rounded to the nearest tenth, what is the **circumference** of a standard sized basketball rim?
2. Using the formula for the Surface Area of a sphere ($SA=4\pi r^2$) find the surface area of the men's basketball. Use 3.14 for π. Round your answer to the nearest hundredth.
3. Using the formula for the Surface Area of a sphere ($SA=4\pi r^2$) find the surface area of the women's basketball. Use $\frac{22}{7}$ *for* π. Write your answer as a mixed fraction.

For the following diagrams use the information given to find the area of the shaded areas.





Triangle ABC represents three players in what's known as a "Triangle Offense," made famous by Michael Jordan's Bulls in the early 80's.

1. **Name the coordinates for each point on triangle 1 and triangle 2?**

Triangle 1	Triangle 2
$A = (\quad)$	$A' = (\quad)$
$B = (\quad)$	$B' = (\quad)$
$C = (\quad)$	$C' = (\quad)$

2. **Describe the transformation from triangle 1 to triangle 2 in words.**

Triangle _____ *180^0 and then* _____ *9 units right.*

3. **Use an ordered pair to describe the transformation of A to A'.**

( )