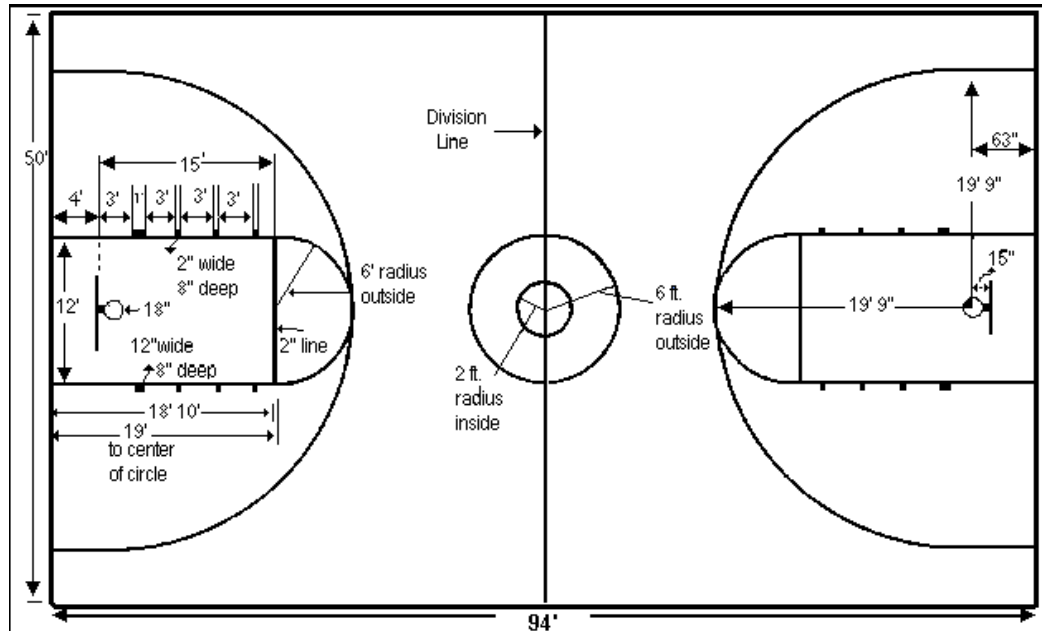


Gummi Bear Basketball

Name _____

The drawing below shows the measurements for an NBA basketball court. The average basketball player on a team is 6' 6" tall. You are designing a basketball court for a Gummi Bear Team. Measure the Gummi Bear.



1. How many times taller is the average NBA player than the Gummi Bear?
2. Explain what is meant by a Scale Factor. What would the scale factor be if you were designing the court for a Gummi Bear Team? Explain how you decided on this scale factor
3. Use the scale factor to find the measurement for each item listed below on the Gummi Bear Court:
 - a. The length of the court
 - b. The width of the court
 - c. The distance from the basket to the free throw line.
 - d. The width of the key
 - e. The distance from the center of the basket out to the side to the three-point line
 - f. The radius of the outside circle in the center of the court.
 - g. The distance between the marks along the side of the key.
4. The NBA backboard is 72" long and 42" high. The diameter of the rim is 18". What would these measurements be for the Gummi Bear Team?