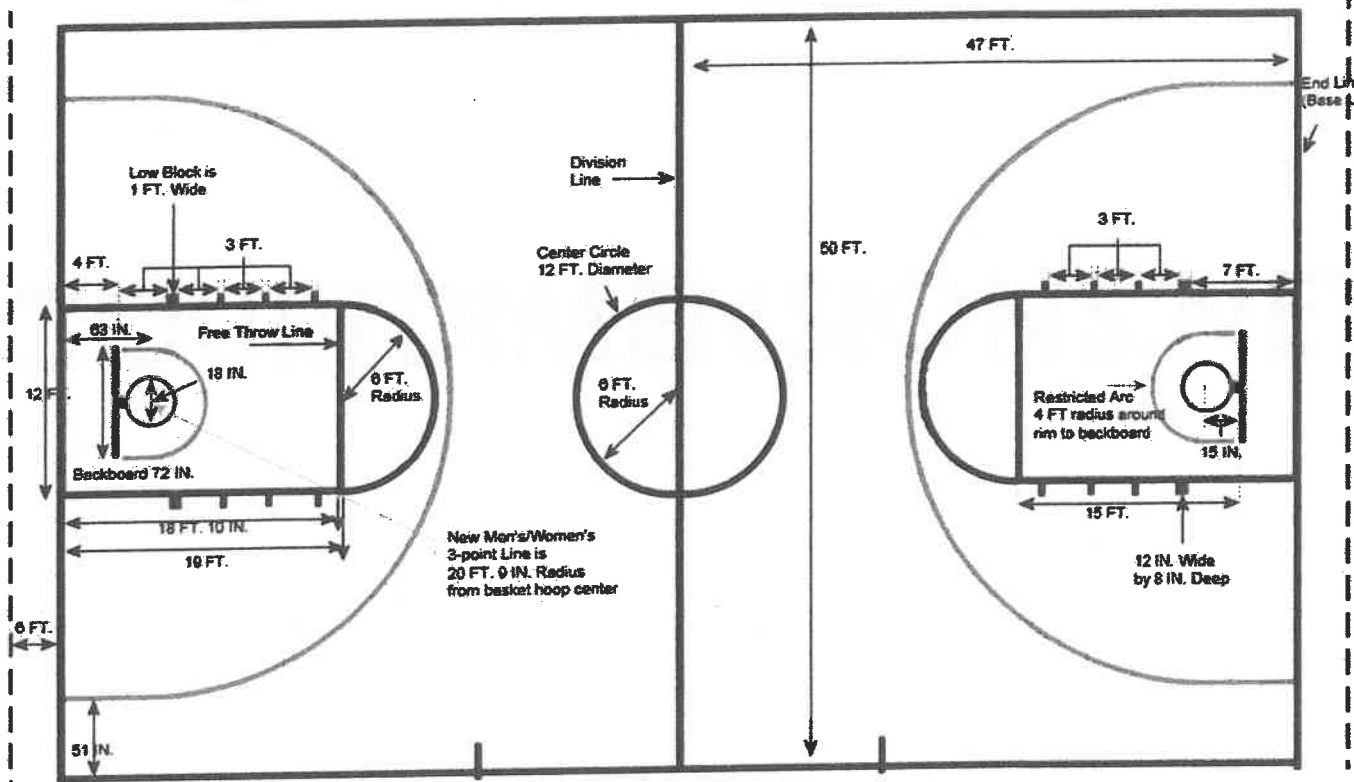# 2024 March Math Madness FUN for Geometry!

Name: _____   **Period:** _____

1.) What is the area of the entire basketball court?

2.) What is the circumference of the free-throw semi-circle?

3.) What is the circumference and area of the center circle? (Round to the nearest tenth)

4.) If a single piece of wood used for the court floor is 4ft long by 6ft wide what is the area of the wooden piece? How many pieces of wood is needed to make the entire court flooring?

5.) If there are 20 pieces of wood flooring in a box, how many boxes are needed to purchase to cover the court? If one box costs $125 how much does it cost to put wood flooring on the court?

6.) At the University of Florida, they want to paint the rectangular area from the free throw line to the base line orange and the semi-circle blue. If one gallon of premium paint covers 50 square feet how many total gallons of paint is needed? How many gallons of each color are needed?

7.) At Florida Atlantic University the center circle is painted white with an OWL in the center! The remainder of the court is painted red! Using the same information from #10 how much does it cost to paint the remaining section of the court red if each gallon of premium paint costs $35 and they want to use two layers of paint?
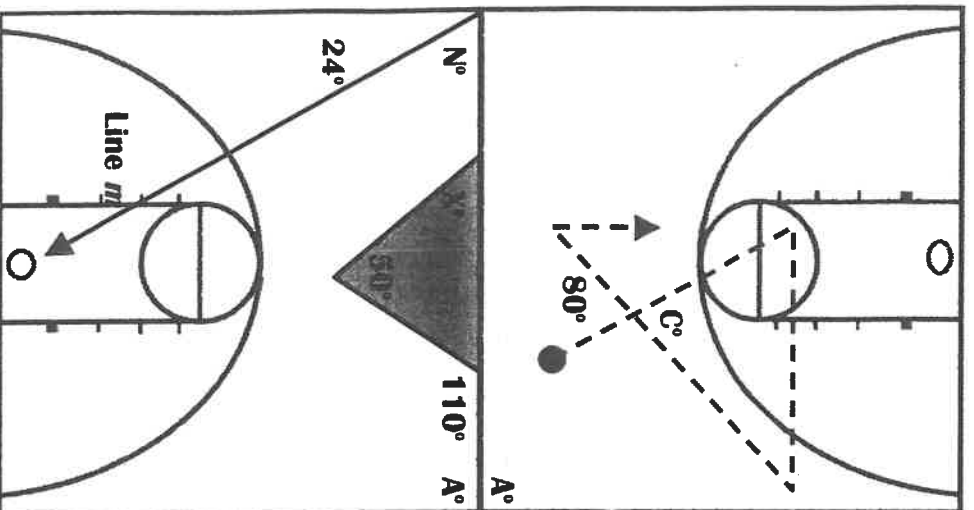
Use the diagram at right to answer the following questions:

1. Line *m* represents the pathway of a shot taken. Use your understanding of *complementary* angles to find the measure of angle N.

    $m \angle N =$ _____

2. Angle A represents the angles created by the mid-court and sidelines. What is the measure of angle A?

    $m \angle A =$ _____

3. What is the word name represented by $\angle A$?

    $\angle A$ is known as a _____ angle.

4. The dashed lines represent the route taken prior to a shot from Kansas' Mario Chalmers. What is the measure of $\angle C$?

    $m \angle C =$ _____

5. What is the name of the relationship between $\angle C$ and the 80⁰ angle?

    The 80⁰ angle & angle C are called _____ angles.

6. The triangular shape at center court is part of a team logo. Use your knowledge of supplementary angles along with triangle angle measures to find the measure of $\angle X$.

    $m \angle X =$ _____