You work for a sporting goods manufacturer and you are finding that soccer is becoming more and more popular.

The top-selling soccer ball is made by Everkick. The design pattern of this ball is composed of pentagons and hexagons. Below are three views of the Everkick soccer ball. Analyze the design pattern and determine the number of pentagons and hexagons it takes to make a ball. Explain your conclusion using mathematical reasoning.

The GoalScorer ball is second on the list of best-selling soccer balls. It has a different design pattern. The design pattern of this ball is composed of pentagons, triangles, and squares. Below are three views of the GoalScorer soccer ball. Analyze the design pattern and determine the number of pentagons, triangles, and squares it takes to make a ball. Explain your conclusion using mathematical reasoning.