Pentagons

**Base: 4.5 cm Height: 3.44 cm**

**Number of pentagons on a soccer ball:**

**Number of triangles:**

**Area of each triangle:** $\frac{1}{2}\*base\*height$

**Area of each triangle \* Number of triangles \* Number of pentagons = Area from Pentagons**



Hexagons

**Base: 4.5 cm Height: 2.25 cm**

**Number of hexagons on a soccer ball:**

**Number of triangles:**

**Area of each triangle:** $\frac{1}{2}\*base\*height$

**Area of each triangle \* Number of triangles \* Number of Hexagons = Area from Hexagons**



Approximate Area (Hexagons + Pentagons)

Actual Surface Area (SA = 4πr2) r =