Reuleaux WS 3 Name:

1. Make a chart for the perimeter and area formulas of both types of Reuleaux triangles and perimeters of both types of Reuleaux pentagons.

For problems 2-7 approximate all answers to tenths and include units.

2. Find the area of a pointy Reuleaux triangle with h=5cm.

3. Find the perimeter of a pointy Reul. pentagon with h=10in.

4. Find the area of a rounded Reul. triangle with p=12cm and q=5cm.

5. Find the perimeter of a rounded Reul. pentagon with p=7m and q=2m

6. Use the surface area and volume formulas for a prism to find the surface area and volume of a Reuleaux cylinder with a pointy triangle base with h=6cm and H=10cm.

7. Find the surface area and volume of a rounded Reul triangular cylinder with p=10in, q=3in, and H=20in