

MATH 108 EXAM 3 November 20, 2013 REVIEW SHEET-

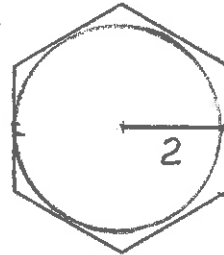
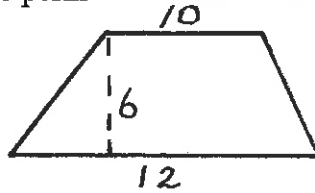
MATERIAL: More on Areas and Perimeters: Circles, Trapezoids, Volumes (height times area, spheres, pyramids), Applying what we have learned. Chs. 23-26

Sample Questions.

1. Give the area to perimeter ratios for the following circles.

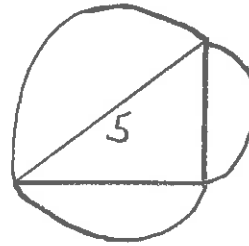
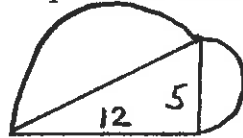


2. Give the area to perimeter ratios for the following polygons.

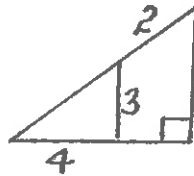
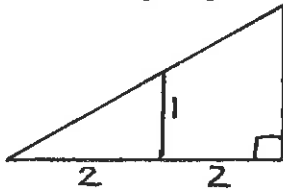


3. Give the area to perimeter ratio for the following regions.

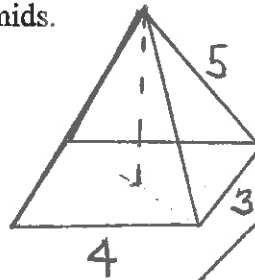
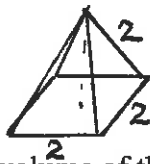
(semi-circles)



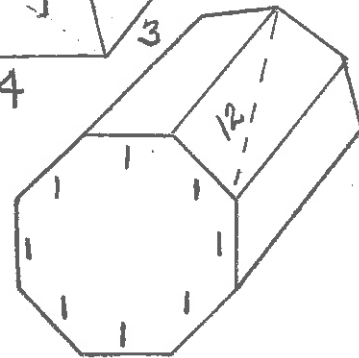
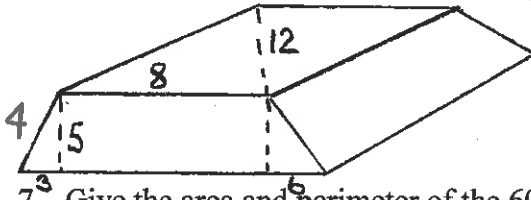
4. Give the missing length in the following triangles.



5. Give the volume and surface area for the following pyramids.



6. Give the volume of the following. (surface area)



7. Give the area and perimeter of the 60 degree sector in the circle.



8. Mary makes a box that will exactly hold a baseball with a radius of 1.5 inches. What is the volume and surface area of the box? How much empty space in the box after the ball is put in?
9. Jack and Jill have a one inch diameter golf ball. They use it to start a spherical snowball. They stop and measure the diameter of the snowball. It is 18 inches. What is the volume of the snow? What is the surface area of the snowball?
10. Glen is 6 foot tall and is standing 25 feet from a light pole. April measures his shadow to be 10 feet. How tall is the light pole?