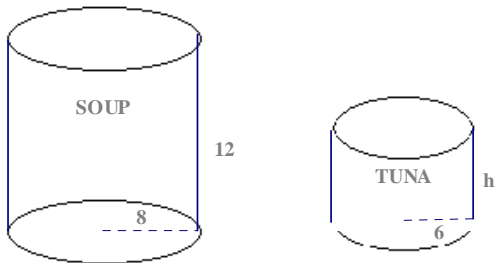


Chapter 9: Surface Area/Volume
Lesson 9-5: Similar Objects
Warmup: Current

Name _____
Date _____
Period _____

1. Suppose the two right cylinders shown are similar. Find:
 - a. the scale factor.
 - b. find the height of the smaller cylinder.
 - c. the ratio of areas
 - d. the ratio of the volumes



2. Two cones have radii 6 and 9. The heights are 12 and 18. Are the cones similar?
3. Two similar cones have volumes in the ratio 8:27. Find the ratios of the following:
 - a. radii
 - b. lateral area
4. Two similar cylinders have radii 3 and 5. Find the ratio of the following:
 - a. heights
 - b. lateral area
 - c. volume
5. Two similar pyramids have total areas of 1 and 25. Find the ratio of the following:
 - a. heights
 - b. volumes