Each pair is similar. Use the given information to find the scale factor of the left vs right figure.

4)

5)

6)



SA: 128 in²



SA: 8 in²



Vol: 1750 yd3



Vol: 378 yd3



Vol: 1500 ft³



Vol: 96 ft3

- 6. Two prisms have a scale factor of 1:4. What is the ratio of their surface areas?
- 7. Two pyramids have a scale factor of 2:7. What is the ratio of their volumes?
- 8. Two spheres have radii of 5 and 9. What is the ratio of their volumes?
- 9. The surface area of two similar cones is in a ratio of 64:121. What is the scale factor?
- 10. The volume of two hemispheres is in a ratio of 125:1728. What is the scale factor?

- 11. A cone has a volume of 15π and is similar to another larger cone. If the scale factor is 5:9, what is the volume of the larger cone?
- 12. A cube has sides of length x and is enlarged so that the sides are 4x. How does the volume change?
- 13. The ratio of the volumes of two similar pyramids is 8:27. What is the ratio of their total surface areas?
- 14. The ratio of the volumes of two tetrahedrons is 1000:1. The smaller tetrahedron has a side of length 6 cm. What is the side length of the larger tetrahedron?