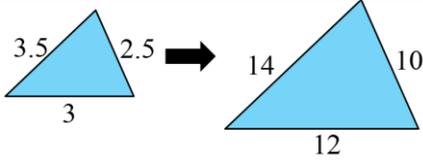
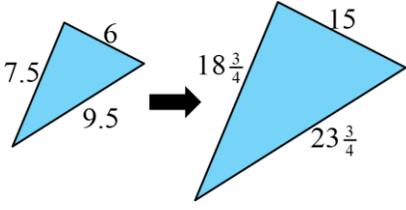
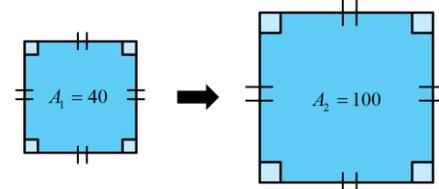
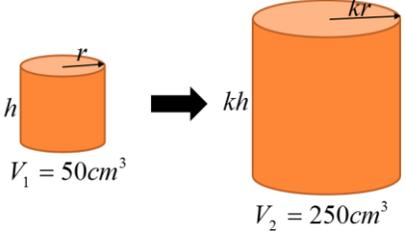


Name: _____

Date: _____

Section 5.3 Math 8 Enriched: Finding Scaled Factors for Lengths, Areas and Volumes

1. Find the scaled factor for each of the diagrams:

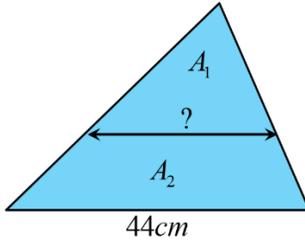
	
	

2. Given that the side lengths of the larger cube is 3 times larger than the side length of the smaller cube, how many times bigger is the larger surface area?

3. The dimensions of a picture is increased by 30%, how many times larger is the area of the new picture?

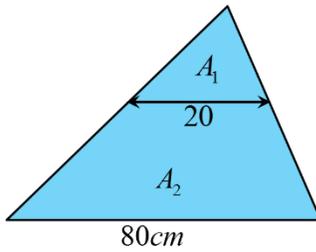
4. The area of a photo is to be increased by 100%, how much should the length and width be increased by?

10. The base of a triangle is 44cm. A line parallel to the base is drawn such that it cuts the triangle in half. What is the length of this line?

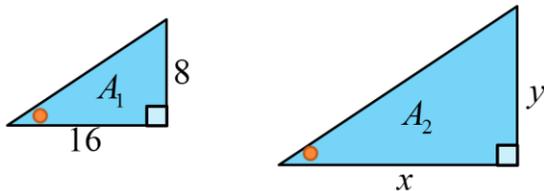


11. The volume of a cube is 50cm^3 and its surface area is increased by 300%. What is the volume of the new cube?

12. What is the ratio of A_1 to A_2 ?



13. The two triangles have a combined area of 300cm^2 . What is the value of "x" and "y"?



14. A 1cm by 1cm by 1cm cube is increased by a factor of "k". The value of the surface area is now equal to the volume. What is the value of "k"?