Solve	each	problem as	indicated.

1)	The dimensions of a cylinder are tripled. Describe the effect on the surface area of the cylinder.
2)	The dimensions of a cone are multiplied by $\frac{1}{3}$. Describe the effect on the volume of the cone.
3)	The volume of a rectangular pyramid is 400 in ³ . If the first dimension is reduced by one-fourth, the second dimension is reduced by half, and the third dimension is tripled, by what factor will the volume be affected?
4)	A rectangular prism has a surface area of 344 square units. Find its surface area if its dimensions are tripled.
5)	The volume of a triangular pyramid is 20 cubic mm. If the dimensions were doubled, what would the new volume be?

6)	A right triangular prism has a Volume of 48 cubic units. Find its new volume if two of its dimensions are doubled, and a third dimension is reduced to one-fourth its original length.	
7)	The volume of a pyramid is 100 cubic ft. If the first dimension is doubled, the second dimension is reduced to one-sixth, and the third dimension is tripled, by what factor will the volume be affected?	
8)	The volume of a rectangular prism is 298 cubic units. If the dimensions are tripled, what is the volume of the figure in cubic units?	
9)	The volume of the pyramid is 176 ft ³ . 8 ft 11 ft If the dimensions of the pyramid are halved, what will be the volume of the smaller pyramid?	
10)	If the length and width of the figure below are doubled, how will it affect the volume of the figure?	
	7 in. 9 in.	