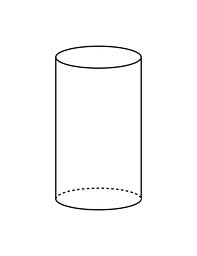
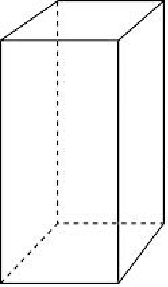
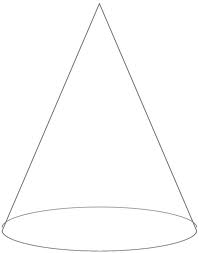
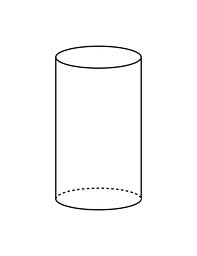
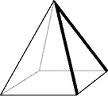
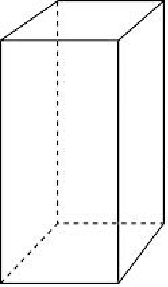
The cylinder and the rectangular prism have the same width and height. Which one has a larger volume?

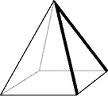
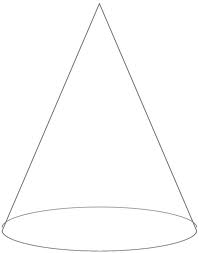
[](http://www.google.ca/imgres?q=image+cylinder+rectangular+prism&start=97&hl=en&sa=X&biw=1246&bih=640&tbm=isch&prmd=imvns&tbnid=gX7RIfYrlZYy4M:&imgrefurl=http://harvestart.blogspot.com/2009/09/3rd-grade-3-d-forms.html&docid=xJE7gGq-sTMlnM&imgurl=http://etc.usf.edu/clipart/41700/41702/FC_Cylinder_41702_lg.gif&w=791&h=1024&ei=gWxWUK7dEurryAHe34GgDg&zoom=1&iact=hc&vpx=1007&vpy=93&dur=659&hovh=256&hovw=197&tx=172&ty=115&sig=103271261767358979485&page=5&tbnh=137&tbnw=114&ndsp=24&ved=1t:429,r:5,s:97,i:21)

[](http://www.google.ca/imgres?q=image+cone&hl=en&sa=X&biw=1246&bih=640&tbm=isch&prmd=imvns&tbnid=pvmEqvSVk9lEHM:&imgrefurl=http://trialx.com/curebyte/2011/08/27/what-does-cone-look-like-are-you-also-searching-for-cone-clinical-trials/&docid=9H2QTReX32WtwM&imgurl=http://trialx.com/curetalk/wp-content/blogs.dir/7/files/2011/05/diseases/Cone-2.gif&w=551&h=700&ei=x21WUJ_3MvGgyAHg1YGoBg&zoom=1&iact=hc&vpx=113&vpy=119&dur=278&hovh=253&hovw=199&tx=106&ty=153&sig=103271261767358979485&page=1&tbnh=138&tbnw=109&start=0&ndsp=22&ved=1t:429,r:0,s:0,i:73)[](http://www.google.ca/imgres?q=image+cylinder+rectangular+prism&start=97&hl=en&sa=X&biw=1246&bih=640&tbm=isch&prmd=imvns&tbnid=gX7RIfYrlZYy4M:&imgrefurl=http://harvestart.blogspot.com/2009/09/3rd-grade-3-d-forms.html&docid=xJE7gGq-sTMlnM&imgurl=http://etc.usf.edu/clipart/41700/41702/FC_Cylinder_41702_lg.gif&w=791&h=1024&ei=gWxWUK7dEurryAHe34GgDg&zoom=1&iact=hc&vpx=1007&vpy=93&dur=659&hovh=256&hovw=197&tx=172&ty=115&sig=103271261767358979485&page=5&tbnh=137&tbnw=114&ndsp=24&ved=1t:429,r:5,s:97,i:21)

The cone and the cylinder have the same size circle and the same height. How would the volume of the cone compare with the volume of the cylinder?

[](http://www.google.ca/imgres?q=image+square+based+pyramid&start=96&hl=en&biw=1246&bih=640&tbm=isch&tbnid=oa_x0bmZ2MYwIM:&imgrefurl=http://janus.shc.edu.bz/in/Alberta_Rotary_TG/Student_Resources/courses/courses/primary/math3/lessons/Module_08/day10.html&docid=zgHcEIx8qqs1xM&imgurl=http://janus.shc.edu.bz/in/Alberta_Rotary_TG/Student_Resources/courses/courses/primary/math3/lessons/Module_08/images10/D10_010_.GIF&w=136&h=121&ei=fW5WUIz3NO2byAG8soHADw&zoom=1&iact=hc&vpx=584&vpy=136&dur=608&hovh=96&hovw=108&tx=68&ty=70&sig=103271261767358979485&page=5&tbnh=96&tbnw=108&ndsp=24&ved=1t:429,r:8,s:96,i:31)

The pyramid and the prism have the same size square base and the same height. How does the volume of the pyramid compare to the volume of the prism?

[](http://www.google.ca/imgres?q=image+square+based+pyramid&start=96&hl=en&biw=1246&bih=640&tbm=isch&tbnid=oa_x0bmZ2MYwIM:&imgrefurl=http://janus.shc.edu.bz/in/Alberta_Rotary_TG/Student_Resources/courses/courses/primary/math3/lessons/Module_08/day10.html&docid=zgHcEIx8qqs1xM&imgurl=http://janus.shc.edu.bz/in/Alberta_Rotary_TG/Student_Resources/courses/courses/primary/math3/lessons/Module_08/images10/D10_010_.GIF&w=136&h=121&ei=fW5WUIz3NO2byAG8soHADw&zoom=1&iact=hc&vpx=584&vpy=136&dur=608&hovh=96&hovw=108&tx=68&ty=70&sig=103271261767358979485&page=5&tbnh=96&tbnw=108&ndsp=24&ved=1t:429,r:8,s:96,i:31)[](http://www.google.ca/imgres?q=image+cone&hl=en&sa=X&biw=1246&bih=640&tbm=isch&prmd=imvns&tbnid=pvmEqvSVk9lEHM:&imgrefurl=http://trialx.com/curebyte/2011/08/27/what-does-cone-look-like-are-you-also-searching-for-cone-clinical-trials/&docid=9H2QTReX32WtwM&imgurl=http://trialx.com/curetalk/wp-content/blogs.dir/7/files/2011/05/diseases/Cone-2.gif&w=551&h=700&ei=x21WUJ_3MvGgyAHg1YGoBg&zoom=1&iact=hc&vpx=113&vpy=119&dur=278&hovh=253&hovw=199&tx=106&ty=153&sig=103271261767358979485&page=1&tbnh=138&tbnw=109&start=0&ndsp=22&ved=1t:429,r:0,s:0,i:73)

Which has the larger volume if both bases are equally as wide and they both have the same height?