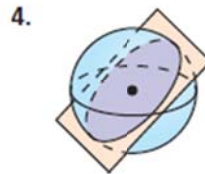
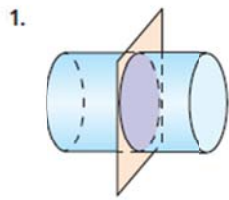


Name: \_\_\_\_\_

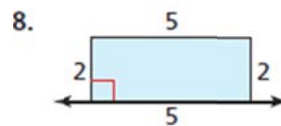
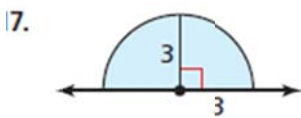
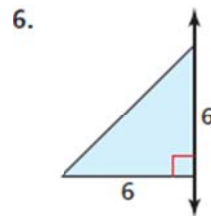
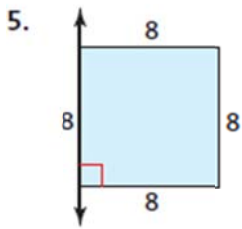
Period: \_\_\_\_\_

### 12.1 Practice Problems

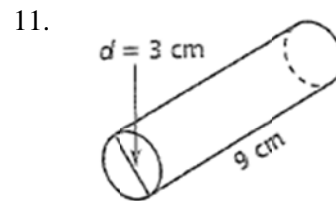
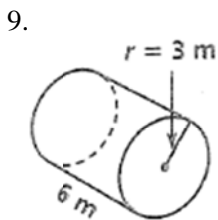
Describe the cross section.



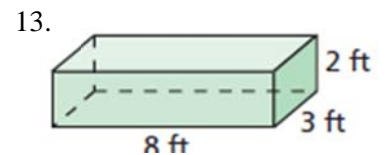
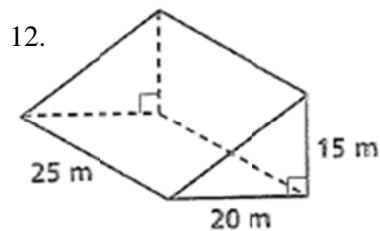
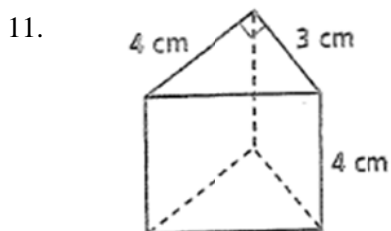
Describe the solid formed when the polygon is rotated around the given axis.



Find the surface area of the cylinder in terms of pi.

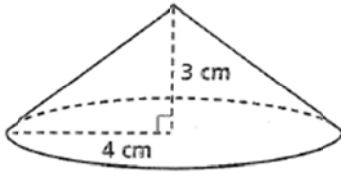


Find the surface area of the prism.

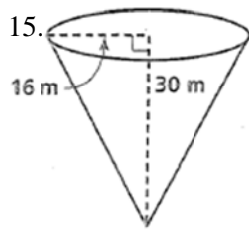


Find the surface area of each cone in terms of  $\pi$ .

14.



15.

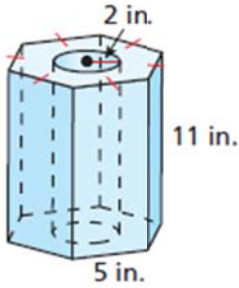


16.

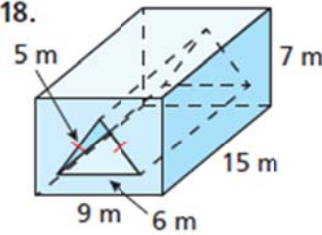


Find the surface area of the composite solid.

17.

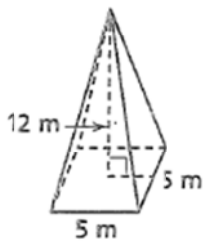


18.

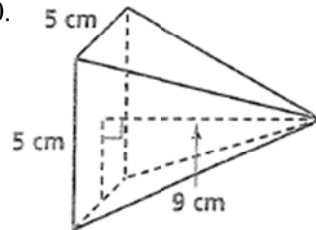


Find the surface area of each regular pyramid to the nearest tenth.

19.

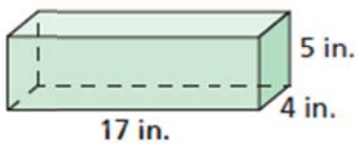


20.

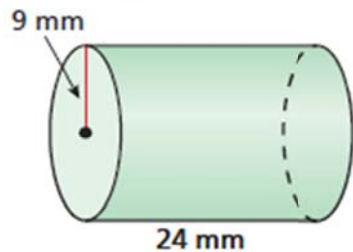


Describe how the change in dimensions changes the surface area of each figure.

21. doubling all the linear dimensions



22. multiplying all the linear dimensions by  $\frac{1}{3}$



23. tripling all the linear dimensions

