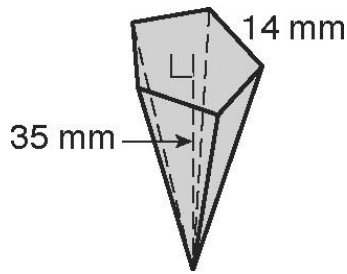
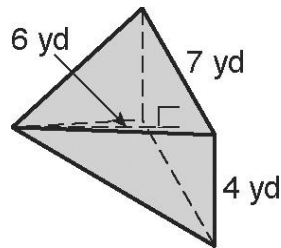


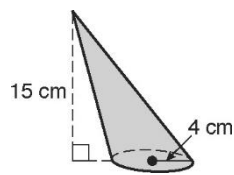
1. Find the volume of the regular pentagonal pyramid rounded to the nearest tenth.



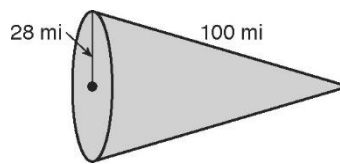
2. Find the volume of the rectangular right pyramid rounded to the nearest tenth.



3. Find the volume of the cone. Give your answer in terms of pi and rounded to the nearest tenth.



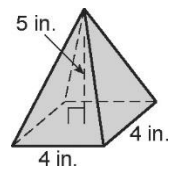
4. Find the volume of the cone. Give your answer in terms of pi and rounded to the nearest tenth.



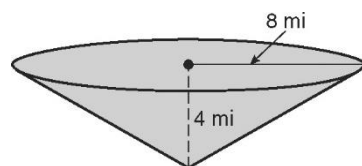
5. Find the volume of a cone with base circumference of  $6\pi$  meters and a height equal to half the radius.

6. Compare the volume of a cone and the volume of a cylinder with equal height and base area.

7. Describe the effect on the volume if the dimensions are multiplied by  $2/3$ . State the factor by which the volume changed.



8. Describe the effect on the volume if the dimensions are multiplied by 3. State the factor by which the volume changed.



9. A figure has a volume of  $90 \text{ cm}^3$ . If all the dimensions in the figure are multiplied by 5, what is the new volume of the figure?

10. A figure has a volume of  $112 \text{ in}^3$ . The dimensions are all reduced by the same amount to create a new figure that has a volume of  $14 \text{ in}^3$ . What factor was used to reduce the dimensions?