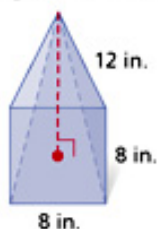


Lesson

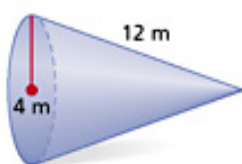
10-5

Find the lateral area and surface area of each figure. Give exact answers, using π if necessary.

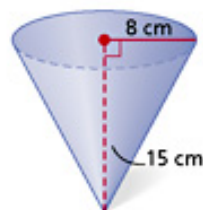
22.



23.



24.



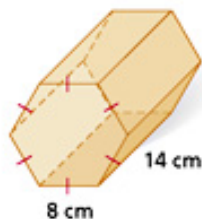
25. The dimensions of a square pyramid with $B = 64 \text{ in}^2$ and $h = 7 \text{ in.}$ are tripled. Describe the effect on the surface area.
26. The dimensions of a right cone with $r = 14 \text{ in.}$ and $\ell = 24 \text{ in.}$ are multiplied by $\frac{1}{2}$. Describe the effect on the surface area.

Lesson

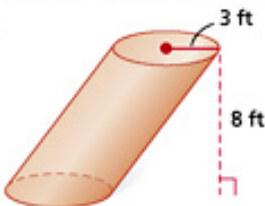
10-6

Find the volume of each figure. Round to the nearest tenth.

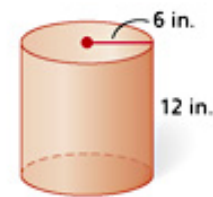
27.



28.



29.



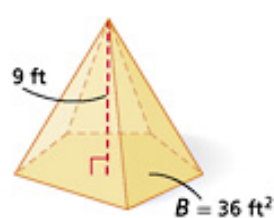
30. The dimensions of a prism with $B = 14 \text{ cm}^2$ and $h = 8 \text{ cm}$ are doubled. Describe the effect on the volume.
31. The dimensions of a cylinder with $r = 6 \text{ cm}$ and $h = 4 \text{ cm}$ are multiplied by $\frac{2}{3}$. Describe the effect on the volume.

Lesson

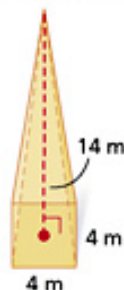
10-7

Find the volume of each figure. Round to the nearest tenth.

32.



33.



34.



35. The dimensions of a cone with $r = 8 \text{ cm}$ and $\ell = 17 \text{ cm}$ are multiplied by $\frac{1}{2}$. Describe the effect on the volume.
36. The dimensions of a pyramid with $B = 128 \text{ mm}^2$ and $h = 56 \text{ mm}$ are tripled. Describe the effect on the volume.

Lesson

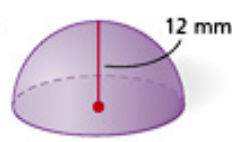
10-8

Find the surface area and volume of each figure. Give your answers in terms of π .

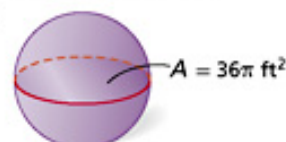
37.



38.



39.



40. The radius of a sphere with $r = 24 \text{ cm}$ is multiplied by $\frac{1}{3}$. Describe the effect on the surface area and volume.
41. The radius of a sphere with $r = 15 \text{ mm}$ is multiplied by 4. Describe the effect on the surface area and volume.