

Independent Practice

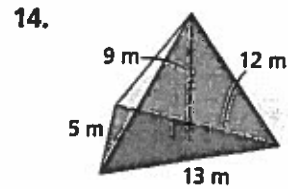
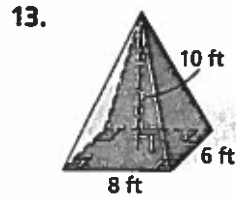
For Exercises	See Example
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Extra Practice

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Application Practice p. 537

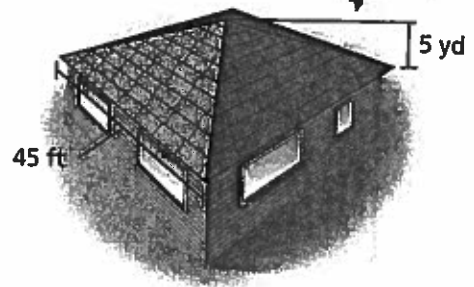
PRACTICE AND PROBLEM SOLVING

Find the volume of each pyramid. Round to the nearest tenth, if necessary.

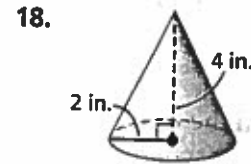
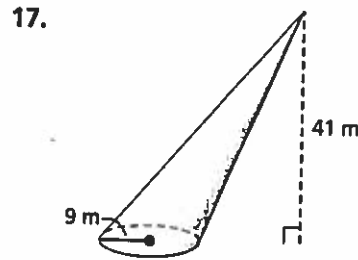


15. a regular square pyramid with base edge length 12 ft and slant height 10 ft

16. **Carpentry** A roof that encloses an attic is a square pyramid with a base edge length of 45 feet and a height of 5 yards. What is the volume of the attic in cubic feet? In cubic yards?



Find the volume of each cone. Give your answers both in terms of π and rounded to the nearest tenth.

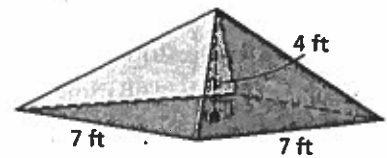
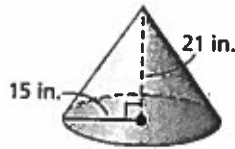


19. a cone with base area $36\pi \text{ ft}^2$ and a height equal to twice the radius

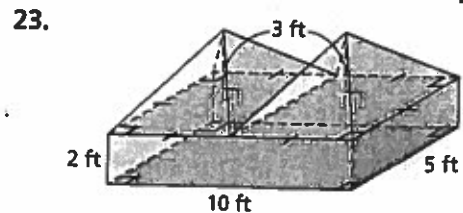
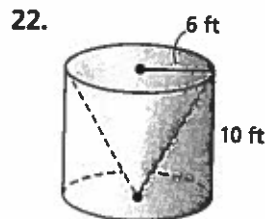
Describe the effect of each change on the volume of the given figure.

20. The dimensions are multiplied by $\frac{1}{3}$.

21. The dimensions are multiplied by 6.



Find the volume of each composite figure. Round to the nearest tenth, if necessary.



Find the volume of each right cone with the given dimensions. Give your answers in terms of π .

24. radius 3 in.
height 7 in.

25. diameter 5 m
height 2 m

26. radius 28 ft
slant height 53 ft

27. diameter 24 cm
slant height 13 cm