LESSON 10-3 Practice A

Volume of Pyramids and Cones

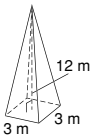
1. Write the formula for the volume of a pyramid. $V = \frac{1}{3}Bh$

2. Write the formula for the volume of a cone. $V = \frac{1}{3}\pi r^2 h$

Find the volume of each pyramid or cone to the nearest whole number. Use 3.14 for π. Cross out each number in the box that matches a volume.

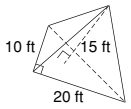
~~2,826~~	34	~~8~~	~~500~~	~~360~~	~~36~~	
471	~~6~~	~~33~~	7	~~38~~	~~540~~	

3.



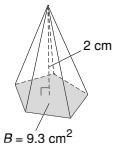
6 cm³

4.



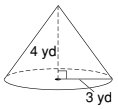
36 m³

5.



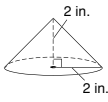
500 ft³

6.



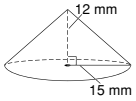
38 yd³

7.



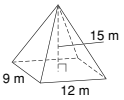
8 in³

8.



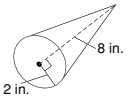
2,826 mm³

9.



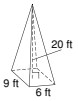
540 m³

10.



33 in³

11.



360 ft³

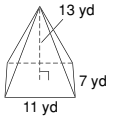
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LESSON 10-3 Practice B

Volume of Pyramids and Cones

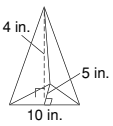
Find the volume of each pyramid to the nearest tenth.

1.



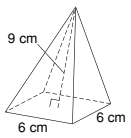
333.7 yd³

2.



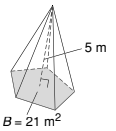
116.7 in³

3.



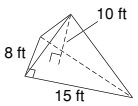
108 cm³

4.



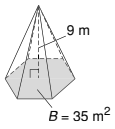
35 m³

5.



200 ft³

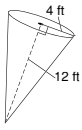
6.



105 m³

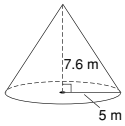
Find the volume of each cone to the nearest tenth.

7.



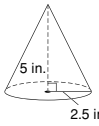
201.0 ft³

8.



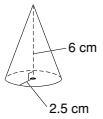
198.9 m³

9.



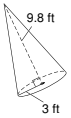
32.7 in³

10.



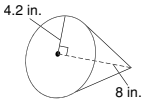
39.3 cm³

11.



92.3 ft³

12.



147.7 in³

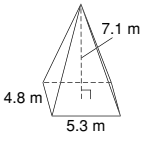
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LESSON 10-3 Practice C

Volume of Pyramids and Cones

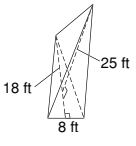
Find the volume of each pyramid to the nearest tenth.

1.



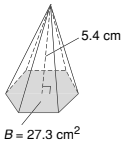
60.2 m³

2.



600 ft³

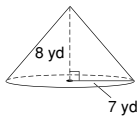
3.



49.1 cm³

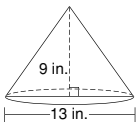
Find the volume of each cone to the nearest tenth.

4.



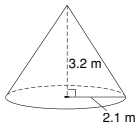
410.3 yd³

5.



398.0 in³

6.



14.8 m³

Find the volume of each solid to the nearest tenth.

7. rectangular pyramid 7 ft by 3 ft by 9 ft high — 63 ft³

8. cone with radius 8 m and height 11 m — 736.9 m³

9. square pyramid with a 4 ft base and height 7 ft — 37.3 ft³

10. cone with diameter 15 in. and height 20 in. — 1,177.5 in³

11. cone with diameter 11 in. and height of 6 in. — 190.0 in³

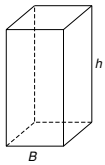
12. triangular pyramid with height 10 cm and a base that is a right triangle with legs of 3 cm and 4 cm — 20 cm³

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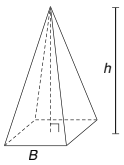
LESSON 10-3 Reteach

Volume of Pyramids and Cones

The volume of a prism with base area B and height h is $V = Bh$.



A pyramid with the same base B and height h has the volume $V = \frac{1}{3}Bh$.

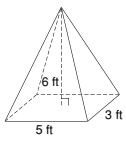


Find the volume of each pyramid.

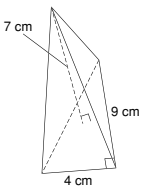
1. The area of the base is
$B = \ell \cdot w =$ 5 · 3 = 15 ft²

2. The height of the pyramid is 6 ft.

3. $V = \frac{1}{3}Bh = \frac{1}{3} \cdot$ 15 · 6 = 30 ft³

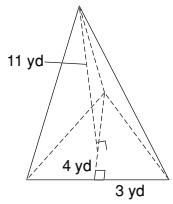


4.



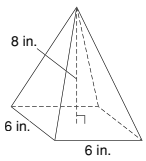
42 cm³

5.



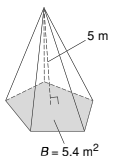
22 yd³

6.



96 in³

7.



9 m³

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