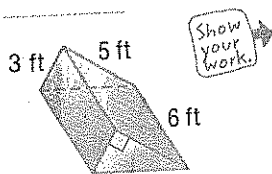


Volume of Triangular Prisms

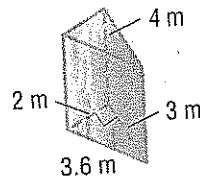
Guided Practice

Find the volume of each prism. Round to the nearest tenth if necessary. (Example 1)

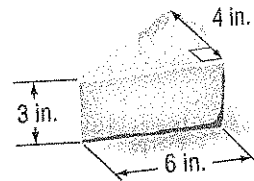
1.



2.



3. Dirk has a triangular-shaped piece of cheesecake in his lunch. Find the volume of the piece of cheesecake. (Example 2)

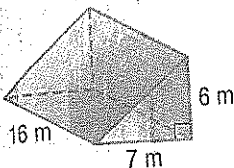


4. Find the base length of a shipping box in the shape of a triangular prism. The shipping box has a volume of 276 cubic feet, a base height of 6.9 feet, and a height of 10 feet. (Examples 3 and 4)

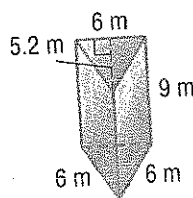
Independent Practice

Find the volume of each prism. Round to the nearest tenth if necessary. (Example 1)

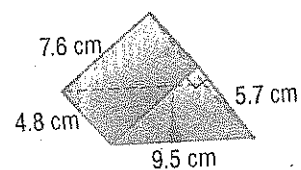
1.



2.



3.

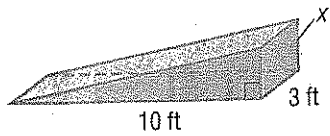


4. A wheelchair ramp is in the shape of a triangular prism. It has a base area of 37.4 square yards and a height of 5 yards. Find the volume of the ramp. (Example 2)

5. A triangular prism has a height of 9 inches. The triangular base has a base of 3 inches and a height of 8 inches. Find the volume of the prism. (Example 2)

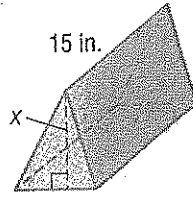
Find the missing dimension of each triangular prism. (Example 3)

6. $x =$ _____



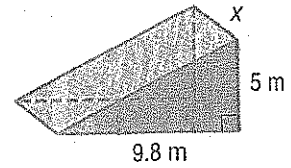
$V = 30 \text{ ft}^3$

7. $x =$ _____



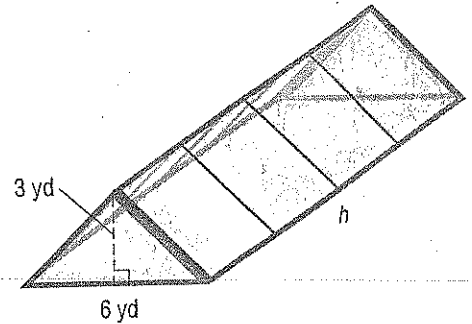
$V = 390 \text{ in}^3$

8. $x =$ _____



$V = 98 \text{ m}^3$

9. Mr. Stanford's greenhouse has the dimensions shown. The volume of the greenhouse is 90 cubic yards. Find the missing dimension of the greenhouse. (Example 4)

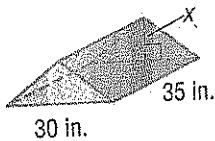


18. A candle is in the shape of a triangular prism. The base has an area of 30 square inches. The candle has a height of 6 inches. Find the volume of the candle.

19. A cabinet is in the shape of a triangular prism. The triangular base has a base length of 14 inches and a base height of 22 inches. The cabinet is 67.5 inches tall. What is the volume of the cabinet?

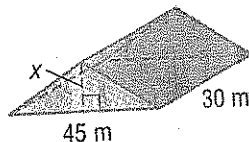
Find the missing dimension of each triangular prism.

20. $x =$ _____



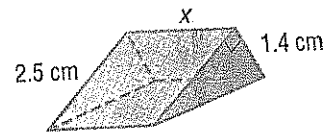
$V = 6,300 \text{ in}^3$

21. $x =$ _____



$V = 10,125 \text{ m}^3$

22. $x =$ _____



$V = 3.5 \text{ cm}^3$

23. What is the volume of the A-frame tent shown?

