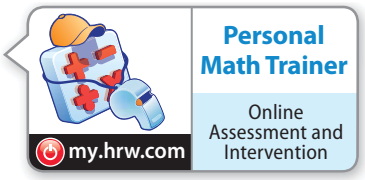
Name _____ Class _____ Date _____

10.2 Independent Practice

TEKS 7.9.A, 7.8.B



8. A trap for insects is in the shape of a triangular prism. The area of the base is 3.5 in^2 and the height of the prism is 5 in. What is the volume of this trap?

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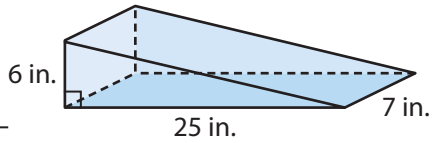
9. Arletta built a cardboard ramp for her little brothers' toy cars. Identify the shape of the ramp. Then find its volume.



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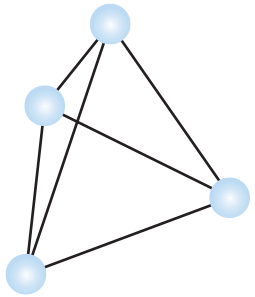
10. **Represent Real-World Problems** Sandy builds this shape of four congruent triangles using clay and toothpicks. The area of each triangle is 17.6 cm^2, and the height of the shape is 5.2 cm. What three-dimensional figure does the shape Sandy built resemble? If this were a solid shape, what would be its volume? Round your answer to the nearest tenth.



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11. **Draw Conclusions** Would tripling the height of a triangular prism triple its volume? Explain.

_____

12. The Jacksons went camping in a state park. One of the tents they took is shown. What is the volume of the tent?

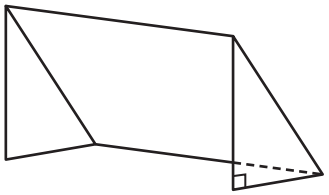
_____

13. Shawntelle is solving a problem involving a triangular pyramid. You hear her say that "bee" is equal to 24 inches. How can you tell if she is talking about the base area *B* of the pyramid or about the base *b* of the triangle?

_____

_____

14. Alex made a sketch for a homemade soccer goal he plans to build. The goal will be in the shape of a triangular prism. The legs of the right triangles at the sides of his goal measure 4 ft and 8 ft, and the opening along the front is 24 ft. How much space is contained within this goal?



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