

Name _____

Date _____

2D and 3D Area, Volume and Surface Area - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. A triangle that is very special to you has an area of 12 square feet. The height of this figure is six feet. What is the length of the base?

2. You find a triangle that has an area of 10 square feet. The height of the triangle is ten feet. What is the length of the base of the triangle?

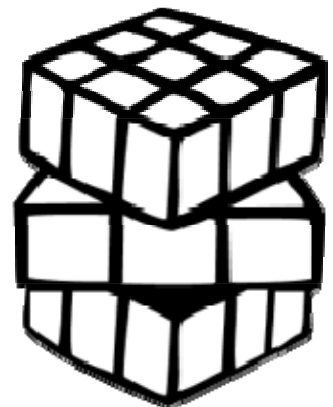
3. You have a cooking triangle at your camp. It makes great hot dogs on a camp fire. The triangle has an area of 14 square feet. The height is four feet. What is the length of the base?



4. The surface area of a cube is 78 in^2 . What is the volume of the cube?

5. The surface area of a cube is 42 in^2 . What is the volume of the cube?

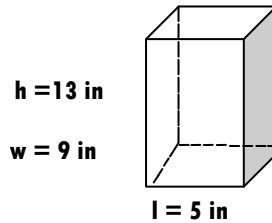
6. An oversized colorful puzzle cube has the surface area of 36 in^2 . What is the volume of the puzzle cube?



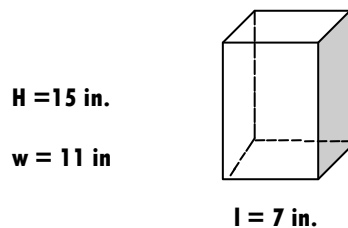
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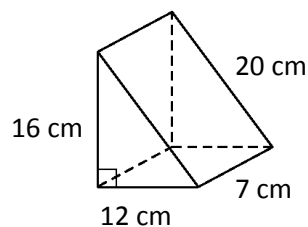
7. You love to play paintball games. Your fort is covered in paintballs. You want to paint it one color. The paint costs three cents per square inch. How much money will you need to paint your fort?



8. Jack stores his gloves and hats in a locker. He wants to cover his locker in sticker paper to make it look blue. The sticker paper costs 3¢ per square inch. How much will it cost to cover the locker in sticker paper?



9. Find the area of the triangular prism.



10. Find the area of the triangular prism.

