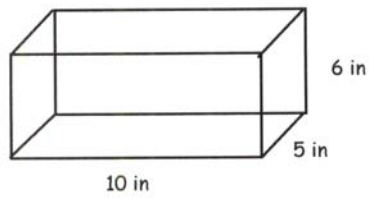


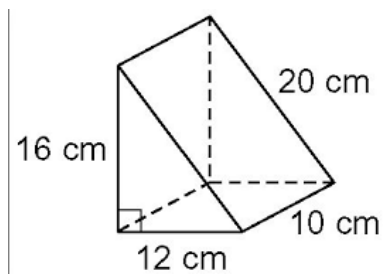
3.2 Surface Area Practice

Show all work. Draw a picture if necessary. Round to the nearest hundredth.

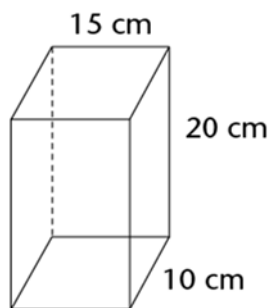
1.



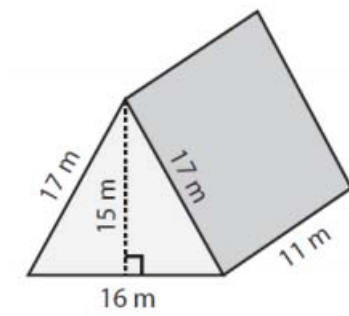
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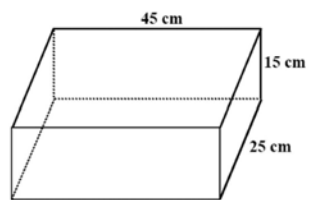
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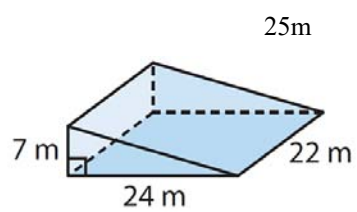
4.



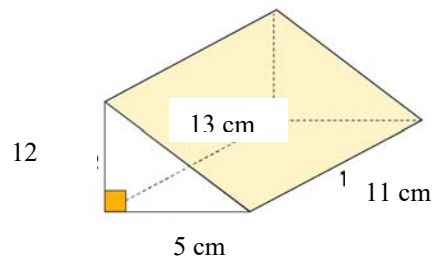
5.



6.



7.



8. A rectangular prism measuring 8 km along each edge of the base and 9 km tall.

9. Vicki is tiling her 35" by 35" shower stall. The tiles reach the 8-foot ceiling on 3 sides. How many square inches of tile should she purchase to tile the walls and the floor?

10. Betty Crocker is designing a new cake pan. The new pan will be 35cm by 14cm and 8cm high.

a. How much aluminum will be needed to make each pan?

b. If aluminum costs \$0.015/cm², how much will it cost to make each pan?

11. Genevieve plans to apply two coats of paint to the **walls** of her garden shed. The shed is 8' long by 6' wide by 7' tall. If there are 3 windows that are 2' by 18" each, what will be the total area she paints? (Hint: you don't paint windows!)

12. Bob is finishing the sides and bottom of a rectangular hot tub. The hot tube is 6'11" long, 5'6" wide and 3' deep.

a. How much finishing material will Bob need?

b. If the material costs \$0.0595/in², what will it cost to line the hot tub?

13. Ted is wallpapering his bedroom. The room is 10 ft. long by 8ft wide by 9 ½ ft. tall. There is a door measuring 3 ft. by 7 ft. and a window measuring 3 ft. by 4 ft.

a. Find the total surface area of the total room to be wallpapered.

b. Each roll covers approximately 56 ft^2 and costs \$42.95. How much will the wallpaper cost?