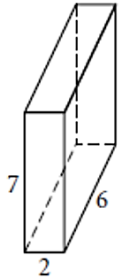


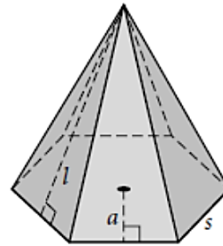
Geometry LT 7.1 Surface Area Classwork

Find the surface area of each solid. All quadrilaterals are rectangles, and all measurements are in cm. Round your answers to the nearest 0.1 cm^2 .

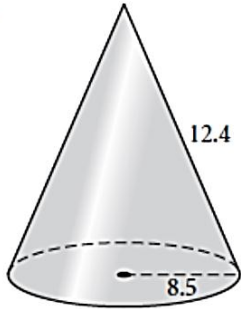
1.



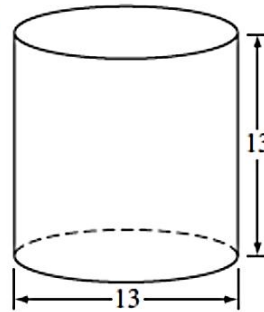
2. Base is a regular hexagon.
 $s = 6$, $a \approx 5.2$, and $l = 9$.



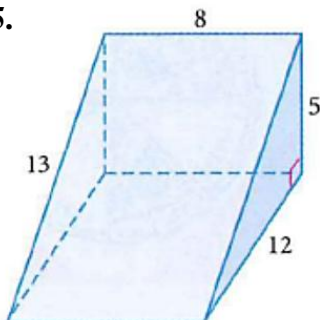
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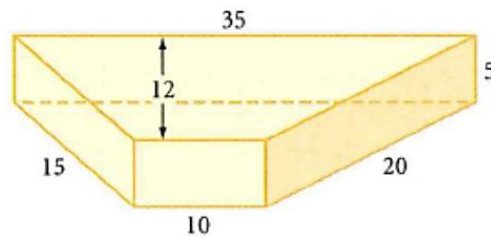
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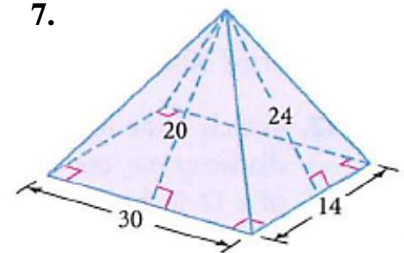
5.



6. The base is a trapezoid.



7.



8. The lateral area of a cylinder is 94.2 cm^2 . The height is 6 cm. What is the radius of the base?
9. Nam and Brandon each have a cylindrical canister of Pringles. Nam's cylinder has a diameter of 7 inches and a height of 13 inches. Brandon's cylinder has a diameter of 5 inches and a height of 20 inches. Whose cylinder has a larger surface area?
10. Clayton wants to make a cylindrical case that will fit a bass drum (shaped like a cylinder) with a height of 14 in. and a diameter of 24 in. He wants to have 2 inches of padding on the top and bottom as well as all around the side to protect the drum. What is the surface area of the case?
11. Chloe wants to wrap a present in a box for Sarah. The top and bottom of the box is 8 in. by 3 in., the sides are both 3 in. by 2 in. and the front and back are 8 in. by 2 in.
- Sketch a diagram of this box.
 - How many square inches of wrapping paper will Chloe need to wrap the present?
 - The wrapping paper Chloe plans to use is from a tube that is 14 inches long. If she plans to use the minimum amount of wrapping paper possible, how much left over wrapping paper will she have from what she has to cut off from the tube?