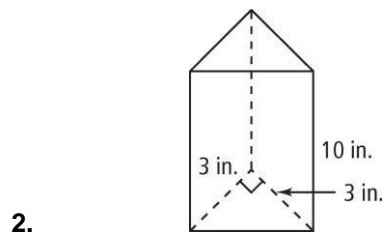
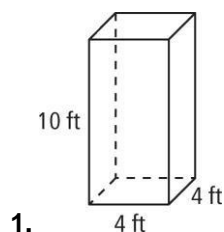


11-2 G

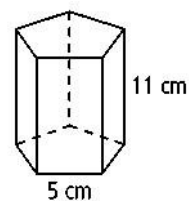
Surface Areas of Prisms and Cylinders

Find the surface area of each prism.

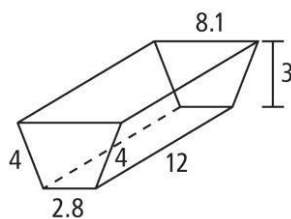


3. a. Classify the prism at the right.

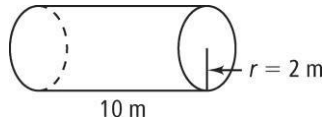
b. The bases are regular pentagons. Find the lateral area of the prism.



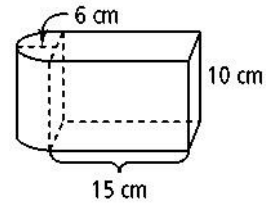
4. Use formulas to find the lateral area and surface area of each prism.
Round your answer to the nearest whole number.



5. Find the lateral area and surface area of the cylinder to the nearest whole number.



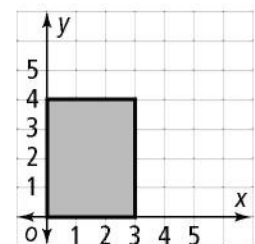
6. Judging by appearances, what is the surface area of the solid shown at the right?



7. A cylindrical container of paint with radius 6 in. is 15 in. tall. If all of the surfaces except the top are made of metal, how much metal is used to make the container? Assume the thickness of the metal is negligible. Show your answer to the nearest square inch.

8. Visualization: Suppose you revolve the plane region completely about the given line to sweep out a solid of revolution. Describe the solid and find its surface area in terms of π .

a) the x -axis



b) the line $x = 3$