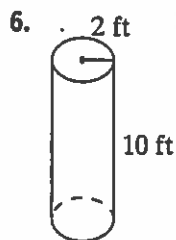
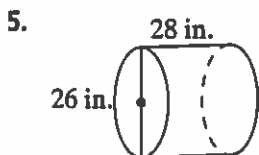
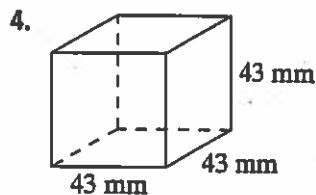
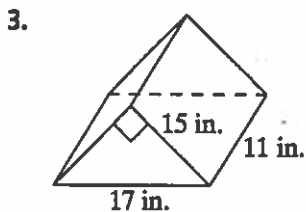
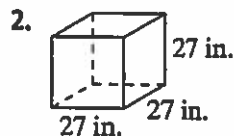
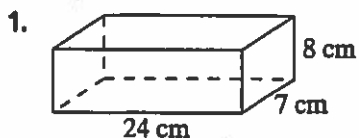


# Practice 8-6

## Volume of Prisms and Cylinders

Find the volume of each solid to the nearest whole number.



Solve.

7. A cylinder has a volume of about  $500 \text{ cm}^3$  and a height of 10 cm. What is the length of the radius to the nearest tenth of a cm?
- 

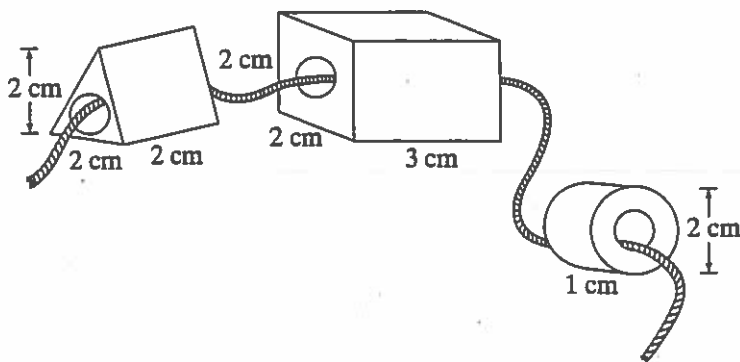
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# Puzzle 8-6

## Volume of Prisms and Cylinders

The Acme Bead Company makes beads by pouring plaster into molds that have a hollow cylinder (1.0 cm diameter) in the middle. When the bead dries, the cylinder provides a hole so that the bead may be strung. The company is currently producing a necklace that includes three types of beads: rectangular prisms, triangular prisms, and cylinders. The beads are pictured below with their dimensions. The beads for each necklace require a total of 86.58 cubic centimeters of plaster to make. The necklace includes an equal number of each type of bead.



How many of each type of bead is used to make the necklace?

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