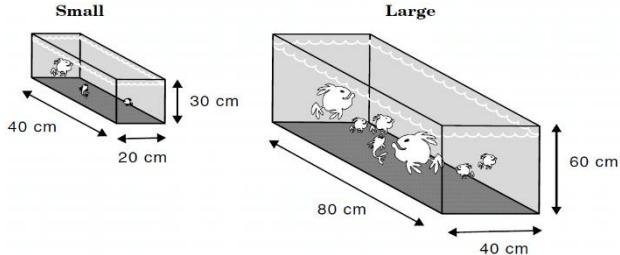


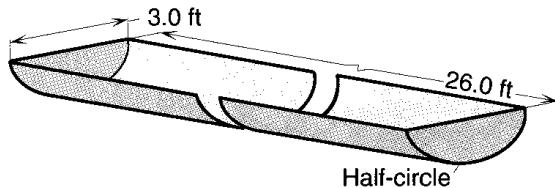
Surface Area of Prisms

1. Aqua Aquariums sells aquariums in the shape of rectangular prisms. The aquariums are available in two sizes, small and large, with dimensions as shown. Each aquarium has glass sides and a bottom, but no top.



The cost of materials required to build the aquariums is \$0.002/cm² of surface area. Determine the cost required to build each aquarium.

2. A feeding trough is constructed from sheet metal as a half-cylinder, 26 feet long and 3 feet in diameter. How much sheet metal is needed?



3. Ed designed a birdhouse in the shape of a rectangular prism topped by half a cylinder. The rectangular prism is 40 cm long, 30 cm wide and 20 cm high. There is a circular hole with a radius of 7.5 cm cut out of the front. Determine the surface area.

