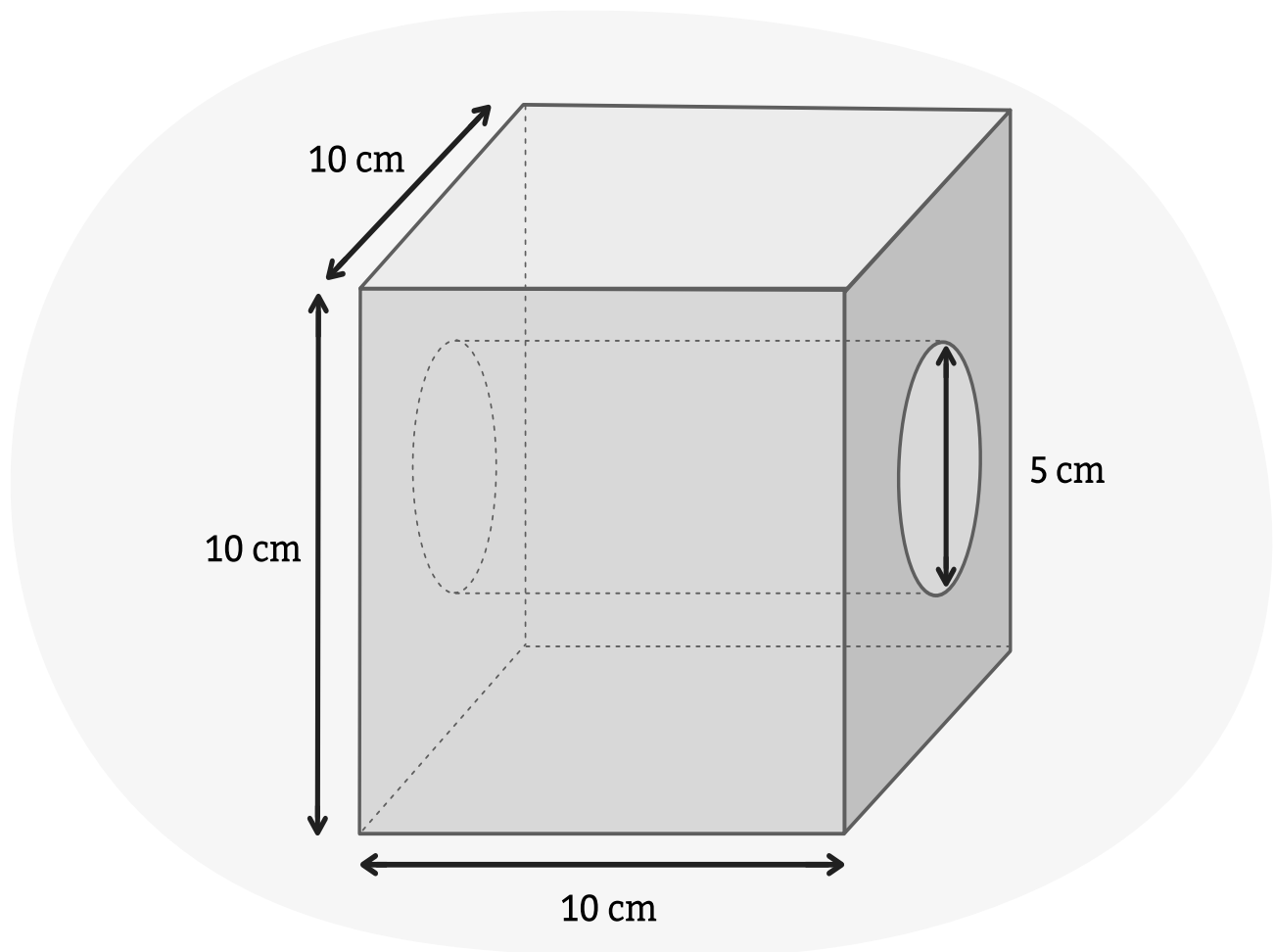


Cube and a Cylindrical Hole Activity



This cube has side lengths of 10 cm. The cube has a hole going through it from end to end. The cylindrical hole has a diameter of 5 cm.

Use sketches or concrete objects to support your thinking.

Cube and a Cylindrical Hole Activity

Respond to the following questions:

1. What two objects do you see in this diagram?
2. What is the surface area of the cube?
3. What is the surface area of the cylinder?
4. What is the volume of the cube?
5. What is the volume of the cylinder?
6. What is the actual surface area of the three-dimensional object?
7. What is the actual volume of the three-dimensional object?