7.G.6
Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

7.G.6 Calculator OH.2025.Q31

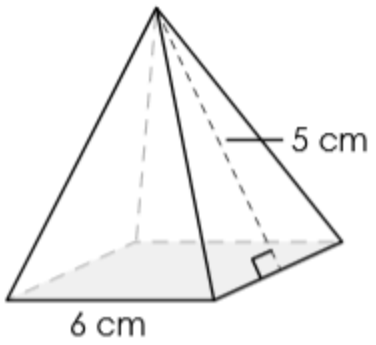
A cube has a side length of 4 centimeters.

What is the surface area, in square centimeters, of the cube?

square centimeters

7.G.6 Calculator OH.2024.Q33

A right square pyramid measured in centimeters (cm) is shown.



What is the total surface area of the square pyramid?

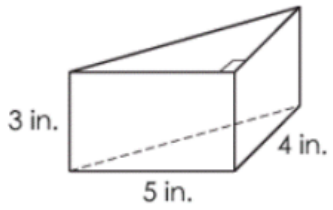
Ⓐ 36 square centimeters

Ⓑ 48 square centimeters

Ⓒ 60 square centimeters

Ⓓ 96 square centimeters

A right triangular prism, with measurements in inches (in.), is shown.

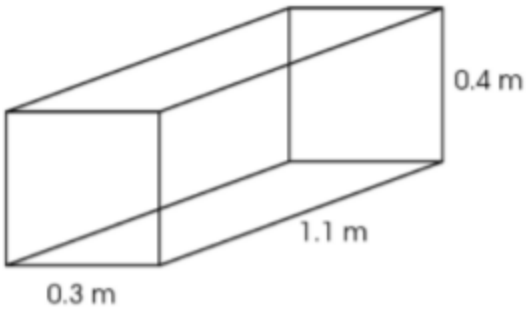


What is the volume, in cubic inches, of the right triangular prism?

_____ *cubic inches*

7.G.6 Calculator OH.2021.Q28

A tank in the shape of a right rectangular prism is shown.



One cubic meter is equivalent to 1,000 liters.

How many liters of water are needed to completely fill the tank?

Ⓐ 132

Ⓑ 180

Ⓒ 1,320

Ⓓ 1,800

7.G.6 Calculator Neutral OH.2018.Q27

A cube has a surface area of 150 square inches (in.^2).

What is the area, in square inches, of one face of the cube?

$in.^2$

7.G.6 Calculator OH.2017.Q40

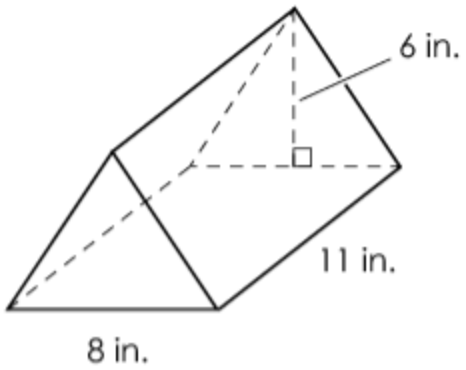
A container in the shape of a rectangular prism holds 651.168 cubic inches when completely filled with water. The container has a length of 12.6 inches and a width of 15.2 inches.

What is the height, in inches, of the container?

inches

7.G.6 OH.PT.Q13

A right triangular prism is shown.



What is the volume, in cubic inches, of the prism?

cubic inches