

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.

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Calculator

OH.2025.Q31

A cube has a side length of 4 centimeters.

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

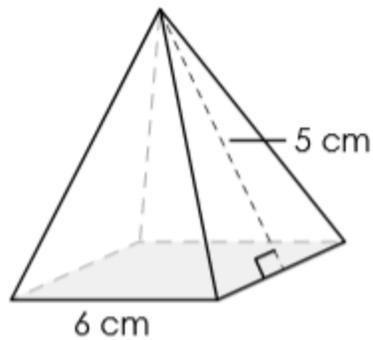
square centimeters

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Calculator

OH.2024.Q33

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



What is the total surface area of the square pyramid?

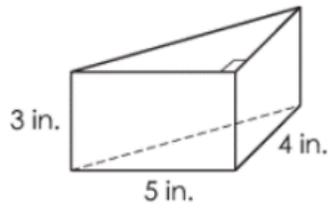
(A) 36 square centimeters

(B) 48 square centimeters

(C) 60 square centimeters

(D) 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?

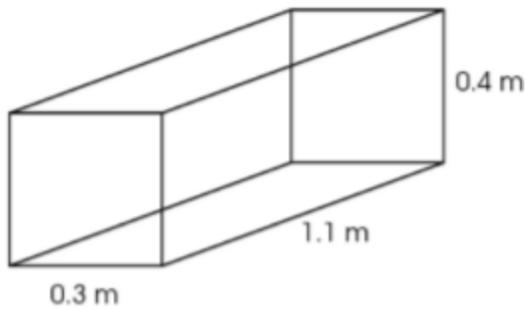
cubic inches

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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?

- (A) 132
- (B) 180
- (C) 1,320
- (D) 1,800

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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

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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.

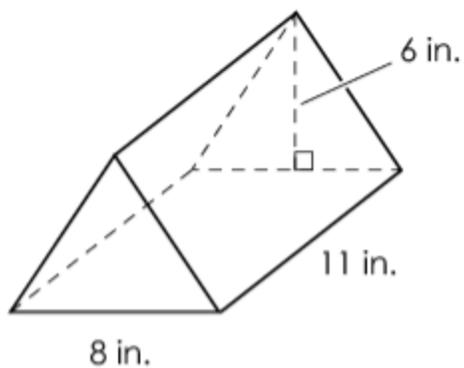
What is the height, in inches, of the container?

inches

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OH.PT.Q13

A right triangular prism is shown.



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

cubic inches