

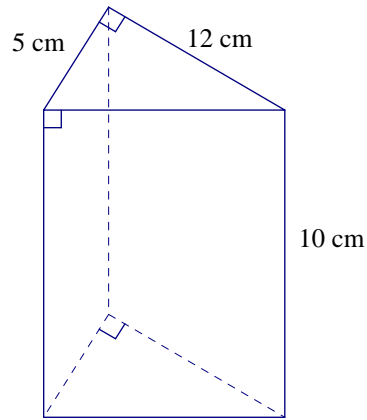
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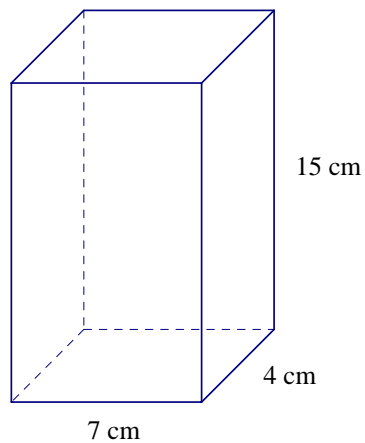
Answer the following. Be sure to include units. (Figures may not be drawn to scale.)

1. Given the following right triangular prism,



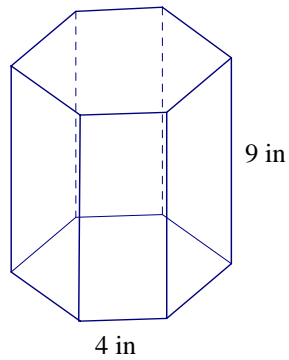
- Find the missing side length of the base.
- Find the lateral area.
- Find the total surface area.
- Find the volume.

2. Given the following right rectangular prism,



- Find the lateral area. (Assume that the bases are the 4x7 cm rectangles.)
- Find the total surface area.
- Find the volume.

3. Given the following right regular hexagonal prism,



- a) Find the lateral area.
b) Find the total surface area.
c) Find the volume.
4. A rectangular prism with a square base has a height of 7 m and a volume of 175 m^3 .
a) Find the dimensions of the square base.
b) Find the lateral area.
c) Find the total surface area.
5. A rectangular prism has a square base, and the side of the square base is 3 in. If the volume of the prism is 108 in^3 ,
a) Find the height of the prism.
b) Find the lateral area.
c) Find the total surface area.
6. A cube has a lateral area of 144 cm^2 . Find the length of an edge.
7. A cube has a total surface area of 96 m^2 . Find the length of an edge.
8. A cube has a volume of 343 cm^3 . Find the length of an edge.