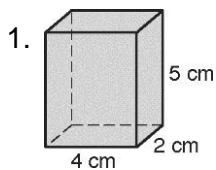


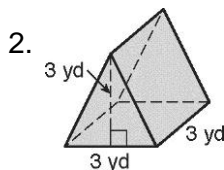
CCGPS Geometry – Day 27

Volume and Surface Area Homework

Find the volume of each prism. Round to the nearest tenth if necessary.



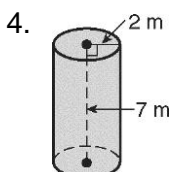
the right rectangular prism



the triangular prism

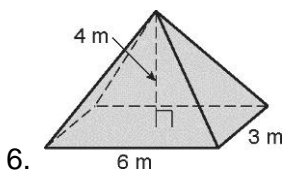
3. Laetitia needs to store 8 boxes while she is moving. Each box is a cube with edge length 3 feet. A storage facility charges \$0.75 for every cubic foot of storage per month. Find the amount of money Laetitia will pay to store her boxes for one month.

Find the volume of each cylinder. Give your answers both in terms of π and rounded to the nearest tenth.

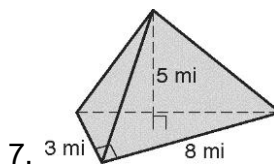


5. a cylinder with diameter 20 in. and height 2 in.

Find the volume of each pyramid.

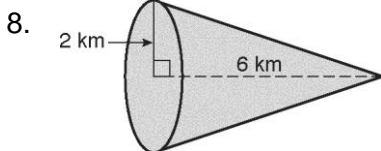


the rectangular pyramid



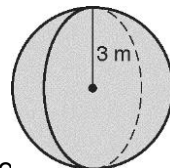
the right triangular pyramid

Find the volume of each cone. Give your answers both in terms of π and rounded to the nearest tenth.



9. a cone with diameter 15 yd and height 10 yd

Complete Exercises 10–12 to describe the effect on the volume and the surface area of multiplying the radius of a sphere by 3.

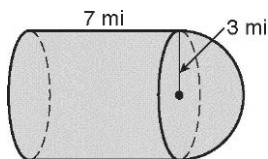


10. Find the volume and surface area of the sphere.
 11. Find the volume and surface area of the sphere after the radius is multiplied by 3.
 12. Describe the effect on the volume and surface area of multiplying the radius of the sphere by 3.

Composite Figures:

Find the volume of the composite figures.

13. _____



14. _____

