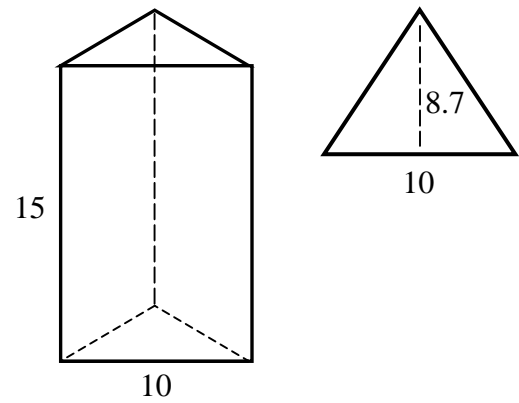


3. At right are the side and top views of a triangular prism with ends that are equilateral triangles.

Think about: How many cubes could sit on the base layer of this prism?

- a. What is the volume of the prism?



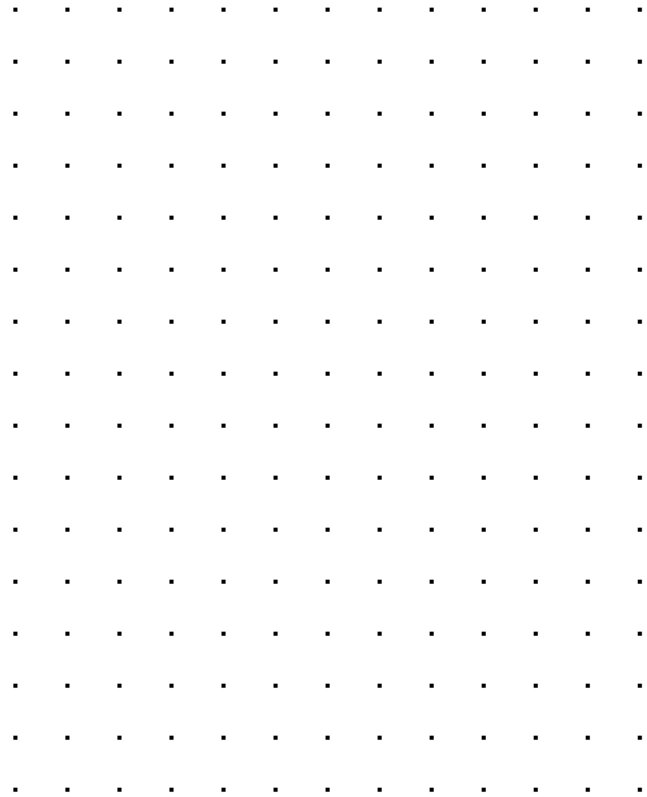
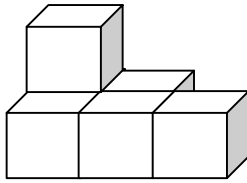
- b. How many faces does the prism have?

Make a rough sketch of each face of the prism below, and label the dimensions.

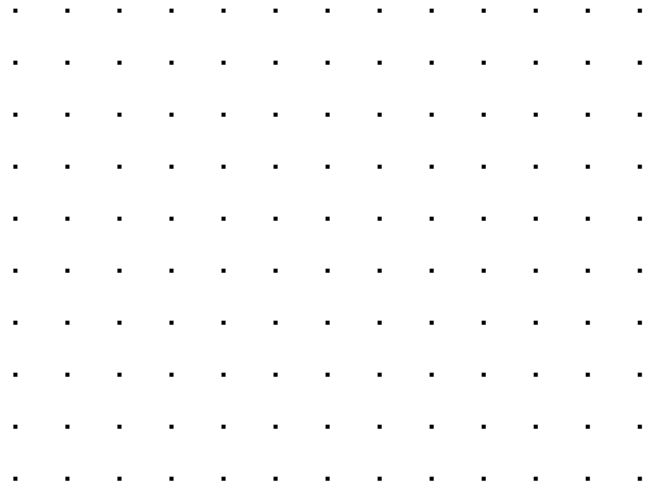
- c. What is the surface area of the prism?

4. The city of Rubberville plans to dig a landfill in the shape of a rectangular prism. The landfill will have a base with dimensions 600 feet by 200 feet and a depth of 80 feet. How many cubic feet of garbage will the landfill hold?

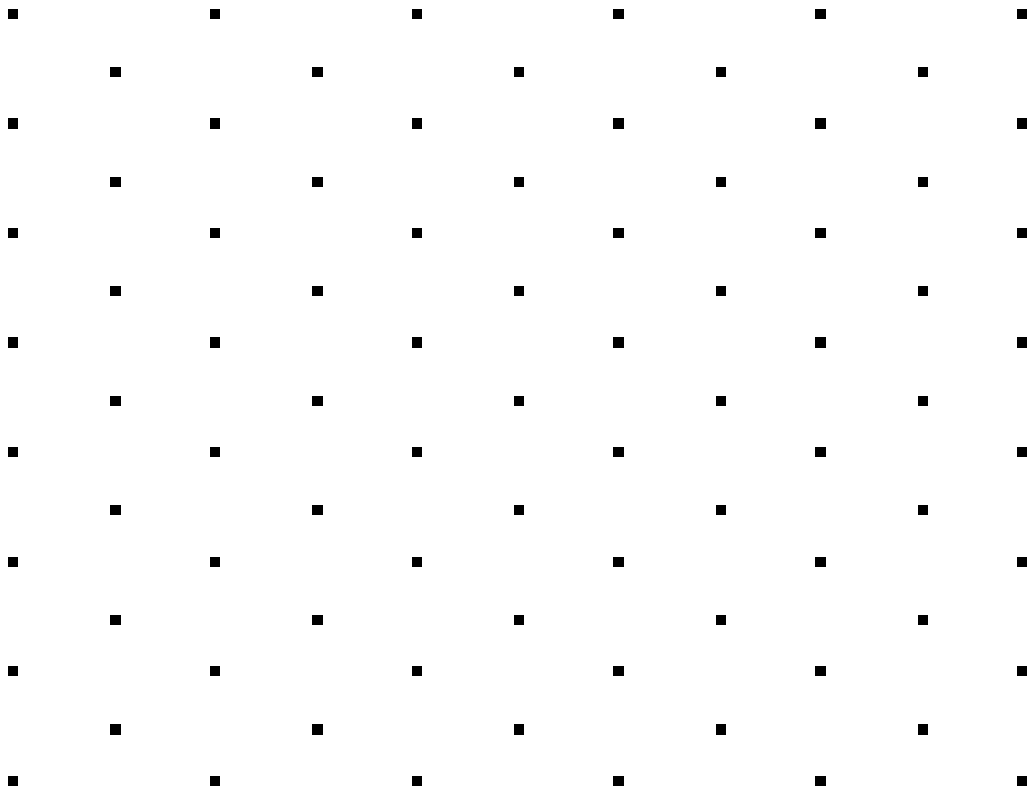
5. Draw all six views (front, back, left side, right side, top and bottom) of the figure below.
 Hint: Use the *SPACE BLOCKS* web activity for an alternate view of this problem.



What is the surface area of the figure?



Draw the figure on the iso dot paper below (hint: start with a “v”):



6. A hexagonal prism has a base with an area of 10 ft^2 . The height of the prism is 22.5 feet. What is the volume of the prism?

Make and label a rough sketch of this prism.

7. _____ Given the same perimeter, which two-dimensional shape will have the largest area?

- a. Square
- b. Trapezoid
- c. Circle
- d. Octagon
- e. Cannot determine

8. Express answers as mixed numbers or fractions in lowest terms

a. $1\frac{1}{2} + 2\frac{2}{3}$

b. $4\frac{1}{6} - 2\frac{3}{4}$

c. $\frac{3}{4}$ of $2\frac{1}{2}$

d. $1\frac{1}{2} \div 4$