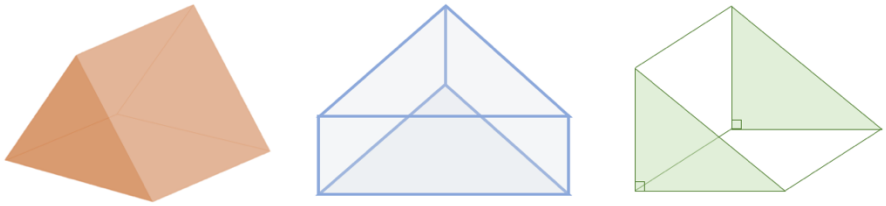
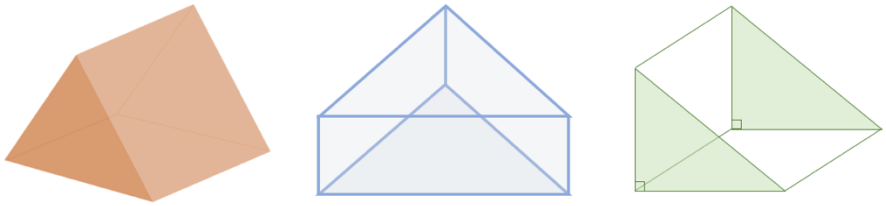
Volume of a Triangular Prism

- How would I describe the triangular prisms shown below?

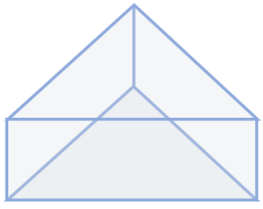


- How would I label each triangular prism as a three-dimensional object?

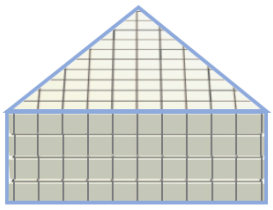


Measuring volume can be thought of as filling a three-dimensional space.

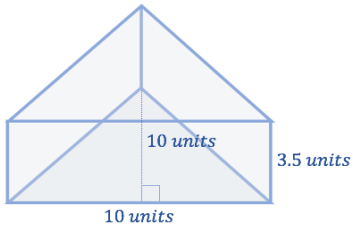
- How would I explain filling the three-dimensional space of this triangular prism using unit cubes?



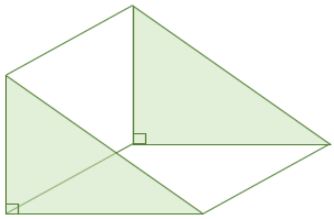
- How does filling the three-dimensional space inside the prism allow me to develop a formula for calculating the volume of the prism?



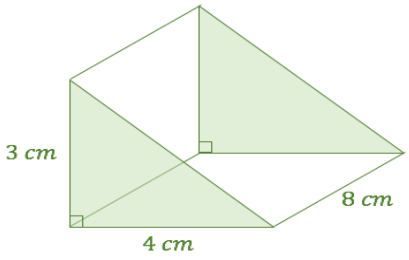
- How would I demonstrate calculating the volume of the prism using… $V = base\ area \times height$?



- Why does my solution for calculating the volume of a triangular prism involve multiplying by one-half or dividing by two?

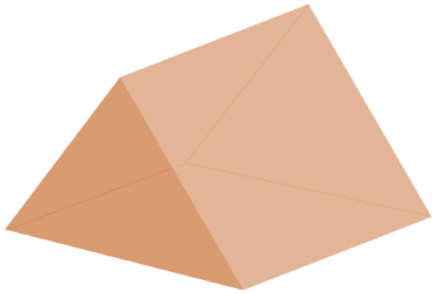


- How would I demonstrate calculating the volume of the prism using… $V = base\ area \times length$?

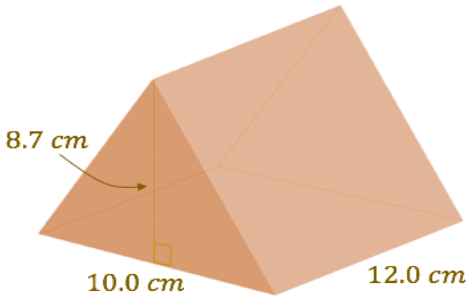


I could also describe calculating volume as… *calculating a 2-D area, then extending that area along the length of a 3-D prism.*

- How would I explain this approach for calculating the volume of my triangular prism?



- How would I demonstrate using this approach to calculate the volume of the triangular prism?



Volume of a Triangular Prism

Which statements do I feel confident explaining and demonstrating?
Which statements do I not feel confident explaining and demonstrating?