

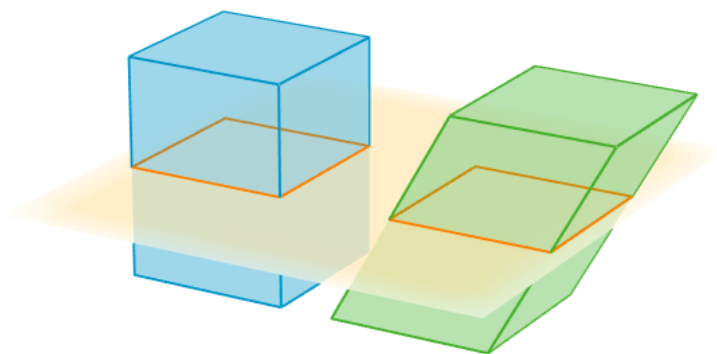
Name: _____ Period: _____

Classwork: Unit 5 Lesson 10

Lesson 10: Cross Sections and Volume

10.2: Rectangular Prism, Shifted

The image shows two rectangular prisms. The bases of the prisms are congruent. Each base has area B square units, and the prisms are the same height. A plane intersects the two prisms parallel to their bases, creating cross sections.

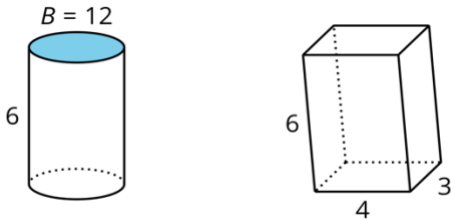


1. Sketch the two cross sections. How do their shapes and areas compare to each other?
2. How would the shape or area of the cross sections change if we moved the plane up or down?
3. How do the volumes of the two prisms compare? Explain your reasoning.

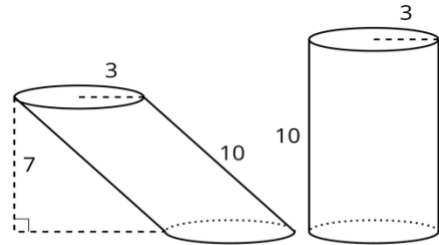
10.3: Equal Volumes?

For each pair of solids, decide whether the volumes of the two solids are equal. Explain your reasoning. If you and your partner disagree, discuss each other's approach until you reach agreement.

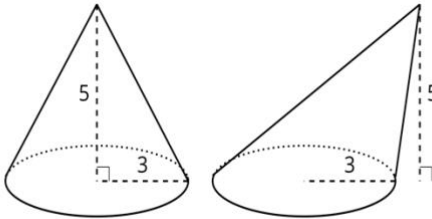
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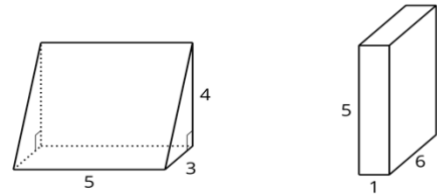
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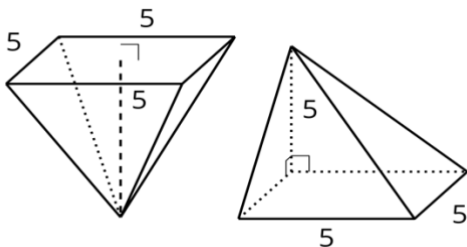
3.



4.



5.



6.

