

Name _____

Volume of Pentagonal and Hexagonal Prisms

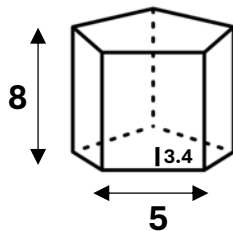
A **prism** is a 3D solid with **two identical polygon bases** and rectangular faces joining them.

Pentagonal Prism Formula: $\text{Volume} = \frac{5}{2} a \times s \times h$

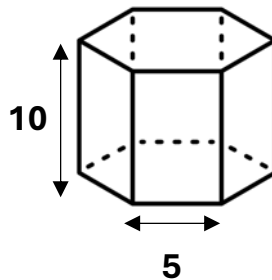
Hexagonal Prism Formula: $\text{Volume} = \frac{3\sqrt{3}}{2} s^2 h$

where a = apothem of the pentagon, s = side length of base, and h = prism height.

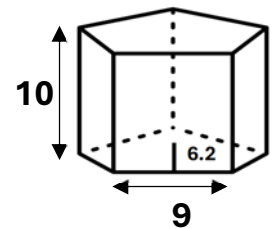
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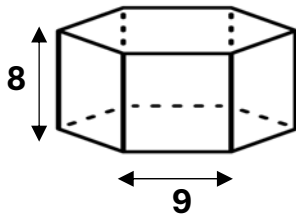
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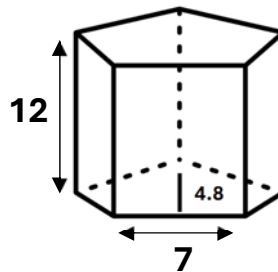
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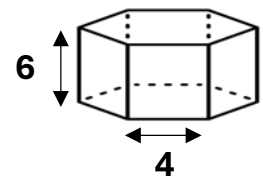
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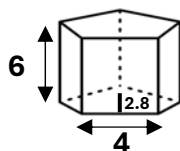
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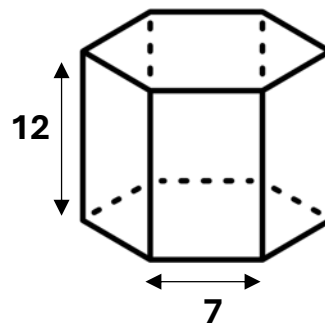
8)



3)



6)



9)

