

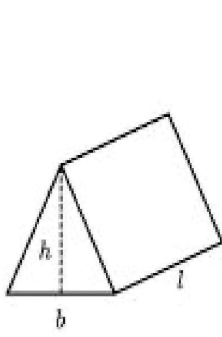
Name: _____

Class: _____

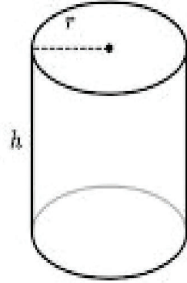
Properties and Behavior of Footballs

GRADES 6-8

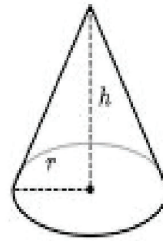
Formulas:



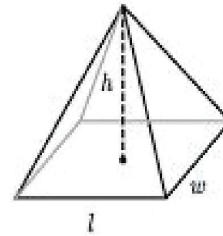
$$V = \frac{b \cdot h \cdot l}{2}$$



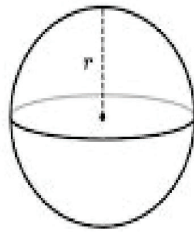
$$V = \pi r^2 h$$



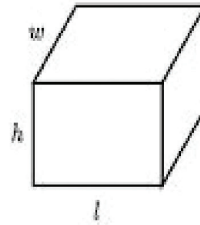
$$V = \frac{\pi r^2 h}{3}$$



$$V = \frac{l \cdot w \cdot h}{3}$$



$$V = \frac{4}{3} \pi r^3$$



$$V = l \cdot w \cdot h$$

<p>Volume of object 1:</p>	<p>Volume of object 2:</p>
<p>Volume of object 3:</p>	<p>Volume of object 4:</p>

Name: _____

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Properties and Behavior of Footballs

GRADES 6-8

	Volume of the center cylinder	Volume of the end cone	Approximate volume of the football	Mass of the football	Density of the football $D=M/V$
Youth Football	_____ +	(_____) x2	=		
Foam Football	_____ +	(_____) x2	=		

Claim: How does the density of a football affect its behavior? Use evidence to support your answer.