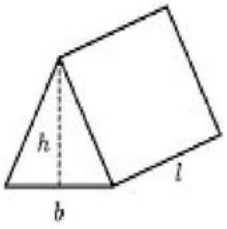
Name: _____ Class: _____

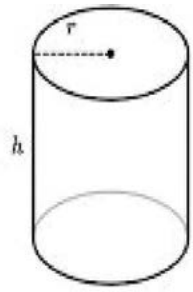
Properties and Behavior of Footballs

GRADES 6-8

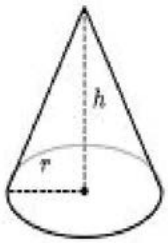
Formulas:



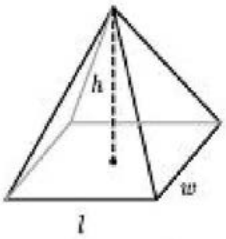
$$V = \frac{b \cdot h \cdot l}{2}$$



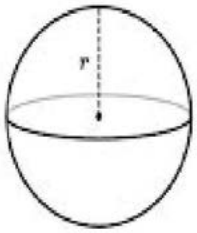
$$V = \pi r^2 h$$



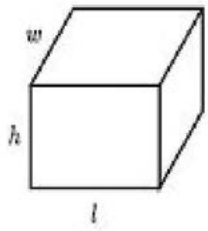
$$V = \frac{\pi r^2 h}{3}$$



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



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



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

Volume of object 1: answer here	Volume of object 2: answer here
Volume of object 3: answer here	Volume of object 4: answer here

Name: _____ Class: _____

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	answer +	(answer) x2	answer here =	answer here	answer here
Foam Football	answer +	(answer) x2	answer here =	answer here	answer here

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

answer here