## MathWalk

## \#1) "The Rock"

Kidd Brewer Stadium's nickname is The Rock, but now there actually is a rock where students meet their friends for football games!


Figure 1. The Rock at the Kidd Brewer Stadium
While "The Rock" is impossible to measure very accurately with a tape measure, approximations for its dimensions are given in Figure 2. It is roughly 84 " x 106 " on top and has a front height of approximately 48 " and a back height of approximately 64 ". We may consider shape of The Rock as a rectangular solid with a triangular wedge under it. It is made of granite, which has a density of approximately $2.70 \mathrm{~g} / \mathrm{cm}_{3}$.


Figure 2. A rough diagram of The Rock's dimensions

## Tasks:

Grade 6-8:
What is the volume of "The Rock" in cubic inches?
Grades 9-12:
Using the above information, what would you estimate "The Rock" to weigh in pounds? In kilograms? (Note: $454 \mathrm{~g}=.454 \mathrm{~kg}=1 \mathrm{lb} .2 .54 \mathrm{~cm}=$ linch, which means 1 cubic inches equals approximately to 16.387 cubic cm)

