

MathWalk

#16) Pyramid Sculptures



Fig 20. Pyramid Sculptures

On the back side of the Justice Hall, there are a set of Pyramids with blue and red lights at the top. Let's consider the following dimensions for the shortest pyramid which has a blue light on the top:
Square base of 36"x36" and the height of the pyramid is 93.5". *Please note this is the height of the pyramid not the line from the tip of the pyramid down the side to the middle of the base*

Tasks:

Grades 6-12:

- What is the approximate total surface area of the 4 sides of the sculpture?
- According to the CDC, from a study conducted from 2011 to 2014 the average male height in USA is 69.2 inches. How much taller in percentage is this statue than the average American male?

<https://www.cdc.gov/nchs/fastats/body-measurements.htm>