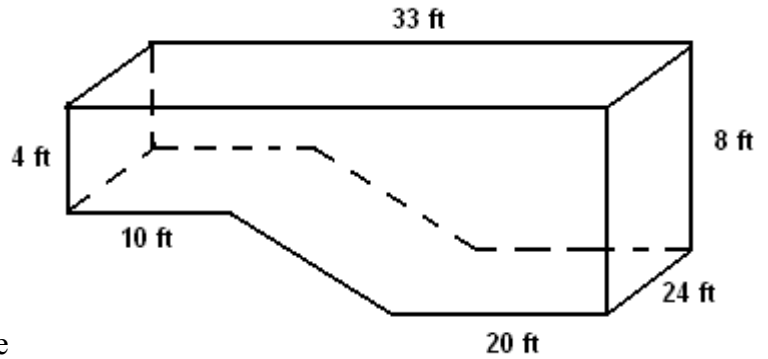


Advanced Geometry
Interesting SA / Volume Problems

Name: _____

Given the Swimming Pool to the right,
complete the following:

(all of its faces are rectangles)



(A) Find the volume of the pool in cubic feet.
(Chunk it up!)

(B) Suppose you set up two hoses that dispense
water at 3 gallons per minute each.

If 1 cubic foot = 7.481 gallons of water,
and you started filling the pool at 12:00 PM Monday, at what time would the pool be full?

(C) Find the surface area of the sides and bottom of the pool combined (there wouldn't be a top...)

(D) Suppose you want to paint the sides and bottom of the pool. If one gallon of paint covers 425 square feet, and paint costs \$18 per gallon (with tax), how much would you have to spend?