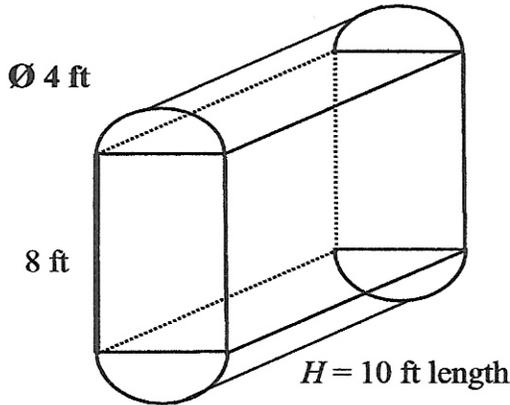Sheree

44. Realizing that the top half and bottom half cylinder together make a whole cylinder, and then there are four remaining rectangular sides, find the TOTAL SURFACE AREA of this cylinder in square feet.

Ø 4 ft

8 ft

$H = 10$ ft length

$(2\pi r)h$

$2(3.14)(2)(10)$

125.6 sq Ft

$(4)(10) = 40$

$(4)(8) = 32$

$(2)(40) = 80$

$+$

$(2)(32) = \underline{64}$

144 sq Ft

144

$+125.6$

$\boxed{269.6 \text{ sq Ft}}$

45. Now here is a CAPSTONE question. Given your final answer above for the surface area of this huge tank, if it is to be covered with a protectant/sealant paint that goes on 100 square feet per can. How many cans do you need to purchase?

you would need 3 cans.
It would give you more than
enough paint for the tank.