

Problem of the Week

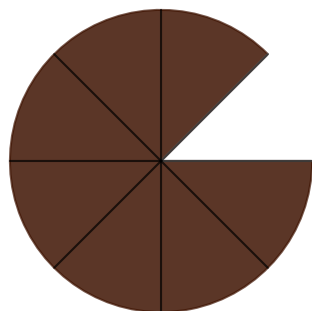
Problem D

More Cake Please

For Amanda's birthday, Rhett made an amazing, cylindrical, chocolate cream cheesecake. The radius and height of the cake were the same. Rhett cut the cake into 8 congruent slices and ate the first slice for quality control purposes.

Rhett then posed the following two questions to Amanda:

- After removing my slice, is there more or less total surface area (top, bottom and all exposed sides) in the remaining cake?
- By what percentage, to 1 decimal place, has the remaining surface area increased or decreased?



Top View with
Rhett's Slice Removed



Rhett's Slice

