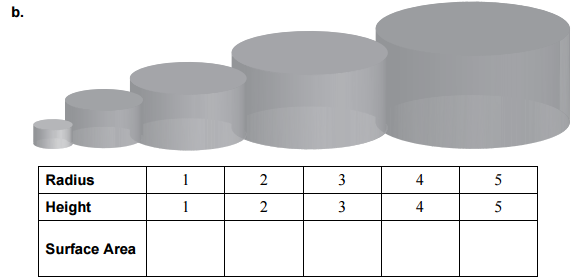
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**8.4B Surface Areas and Volumes of Similar Solids\_Classwork**

*Objective: Use properties of similar solids to find missing measures. Understand relationship between volumes of similar solids.*



E

D

C

B

A

Compare the radius of cylinder A to all of the other cylinders (B, C, D & E). Set up a proportion for each one. Simplify any ratios that can be simplified. Are the two ratios equal? Is there a way to make them equal?

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When two solids are similar, the ratio of their surface areas is equal to the \_\_\_\_\_\_\_\_\_ of the ratio of their corresponding linear measures.

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| 1. The solids are similar. Find the surface area of the small solid. Round answers to nearest tenth. |
| 1. The solids are similar. Find the surface area of the big solid. Round answers to nearest tenth. |
| 1. The solids are similar. Find the surface area, S, of the small solid. Round your answer to the nearest tenth. |
| 1. The pyramids are similar. (a) Find the missing dimension. (b) Find the surface area of big pyramid. |
| 1. The pyramids are similar. What is the surface area of Pyramid A? |

HW: worksheet 8.4B