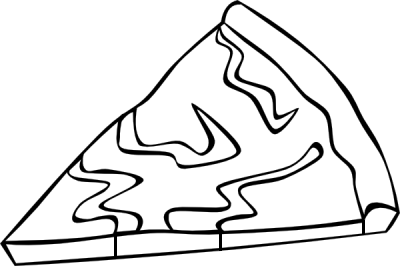
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**11-7 Areas and Volumes of Similar Solids – Pi-Day Color Match Activity SE**

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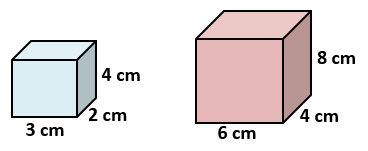
**Scale**

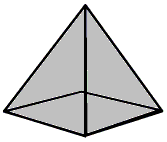
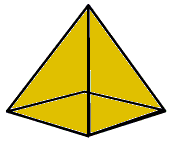
**Similar**

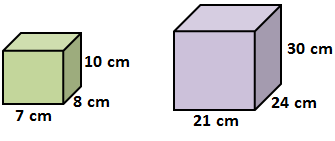
**Directions: Answer the questions. Find your answer on the Pizza Pie. Then color according to your answers.**

**1.** If the corresponding linear dimensions of two solids are proportional, the two solids are \_\_\_\_\_\_\_\_\_\_. **(YELLOW)  
  
  
2.** For two solids to be similar, all of their corresponding linear dimensions must have the same \_\_\_\_\_\_\_\_\_ factor. **(PINK)**

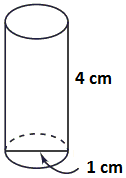
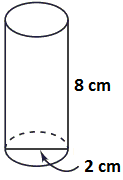
**3.** The scale factor for the figures shown below is \_\_\_\_\_\_\_\_\_\_\_. **(LIGHT GREEN)**

**   
  
4.** If the two solids have a similarity ratio , then the ratio of their areas is mathematically as \_\_\_\_\_\_\_\_\_\_. **(ORANGE)**

**  
5.** The two solids shown have a similarity ratio of 2 : 3. The surface area of the smaller solid is . The area of the larger solid is \_\_\_\_\_\_\_\_\_\_\_ . **(BLUE)**

**6.** The similarity ratio for the figures given below is \_\_\_\_\_\_\_\_\_\_\_ **(RED)  
  
 **

**7.** The similarity ratio for the figures given below is \_\_\_\_\_\_\_\_\_\_\_ **(BROWN)**

** **

**8.** Two similar figures have areas and . The similarity ratio is \_\_\_\_\_\_\_\_. **(GREEN)**

**9.** The surface areas of two similar solids are and . The volume of the larger solid is . The volume of the smaller solid is \_\_\_\_\_\_\_\_\_\_ . **(GREY)  
  
   
  
10.** If the similarity ratio of the two similar figures is doubled, the ratio of their volumes is increased by times. **(PURPLE)**