Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_ Table#\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_

**8.4B Homework** – Similar Solids and Surface Area

For #1 – 4: The solids are similar. Find the surface area of the second solid. If necessary, round your answer to the nearest tenth.

|  |  |
| --- | --- |
| 1. 8.4 #10 | 2.8.4 #11 |
| 3.R&P (8.4) | 4.8.3-4 Quiz #8 |

Continued on back $\rightarrow $

|  |
| --- |
| 5. |

8.4A Review

|  |
| --- |
| Two solids are similar if corresponding dimensions are proportional.There are 3 ways to determine if two ratios are proportional:1. Cross products are equal
2. Convert both ratios (fractions) into decimals. If the decimals are equivalent, they are proportional.
3. Simplify each ration (fraction). If they are equivalent, they are proportional.
 |

Determine whether the solids are similar.

|  |  |
| --- | --- |
| 6.(8.4) p. 359 #4 | 7.(8.4) p. 359 #7 |

Solutions: 1) 756 m2 2) 1012.5 in2 3) 352 m2 4) 75.4 m2 5) 673.8 cm2 6) yes 7) no