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

**8.4A NOTES – Solid Figures**

*Objective: identify similar solids; use properties of similar solids to find missing measures CC.SS.8.G.9*

*FRIDAY CW: (8.4A) BIM p. 359 # 4-9 all (submit online)*

***\*\*\*Do Review Problems on the back\*\*\****

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| **LIST THE THREE WAYS YOU CAN DETERMINE THAT TWO RATIOS ARE PROPORTIONAL:**1.2.3. |

**SIMILAR SOLIDS** have the same shape and **PROPORTIONAL** corresponding dimensions.

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| 1. Is Prism A similar to Prism B?  | 2. Is Prism A similar to Prism C?  |
| 3.The square pyramids are similar. Find the length of the base of Pyramid E.  | 4.The prisms at the right are similar. Find the missing width and length.  |

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| **Example 1:** Which cylinder is similar to Cylinder A?**Is Cylinder A similar to Cylinder B?** **Is Cylinder A similar to Cylinder C?**   |
| **Example 2:** The cones are similar. Find the missing slant height (L).

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| **REVIEW PROBLEMS.** 1. Simplify both ratios (fractions) to determine if they are equivalent.
2. $\frac{8.5}{17} \& \frac{9}{18}$ b. $\frac{39}{13 } \& \frac{43.4}{14}$
3. Fill in the blanks for the PROPORTIONAL SEQUENCE

$$\frac{3}{5}= \frac{ }{10}= \frac{9}{ }= \frac{ }{ 20 }= \frac{ }{ }$$1. Use cross multiplication to determine whether the equation is a proportion.
2. $\frac{7}{36} = \frac{17.5}{90}$ b. $\frac{10}{62} = \frac{30}{184}$
 |

8.4A CW QUESTIONS

 

