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

**8.3B NOTES Composite Solids**

*Objective: find the volumes of composite figures using volumes of other basic figures. CC.SS.8G.9*

*HW: 8.3B HW and Review (handout)*

DIRECITONS: FIND THE VOLUME OF THE COMPOSITE SOLID.

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| **EXAMPLE 1:** Finding the Volume of a Composite Solid  A hemisphere is one-half of a sphere. The top of the silo is a hemisphere with a radius of 12 feet. What is the volume of the silo? Round your answer to the nearest thousand.  The silo is made up of a cylinder and a hemisphere. Find the volume of each solid. |

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|  | **EXAMPLE 2: Similar Test Question #19:** A tennis ball with a 3 inch diameter is sold in cans of three. The can is a cylinder. Round to the nearest tenth.   1. What is the volume of one tennis ball? \_\_\_\_\_\_\_\_\_\_\_\_ 2. What is the volume of 3 balls? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. What is the volume of the cylinder? \_\_\_\_\_\_\_\_\_\_\_\_ 4. How much space is not occupied by the tennis balls in the can? \_\_\_\_\_\_\_\_ |

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| **Similar Test Question #11:** Water flows at a rate of 8,000 cubic inches per minute into a cylindrical tank. The tank has a diameter of 160 inches and a height of 40 inches. What is the height, in inches, of the water in the tank after 10 minutes? Round your answer to the nearest tenth. |

**PRACTICE PROBLEMS**

DIRECITONS: FIND THE VOLUME OF THE COMPOSITE SOLID. ROUND THE ANSWER TO THE NEAREST TENTH.

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| COMPOSITE FIGURES | Draw into smaller BASIC FIGURES. | Find the volume of each BASIC FIGURE. | ADD the volume of all of the figures. |
| 1. |  |  |  |
| 2. |  |  |  |