**In-Class Geometry (Part 2) Test Review**

**You may find the following formulas helpful:**

Area of a Square or Rectangle: $A=lw$ or $A=bh$ Area of a Triangle: $A= \frac{bh}{2}$ or $A=0.5bh$

Volume of Rectangular Prism: $V=lwh$ Volume of Triangular Prism: $V= \frac{lwh}{2}$

|  |  |
| --- | --- |
| 1. Geneva’s younger brother has a toy box that is 3.6 feet long, 2.4 feet wide, and 1.5 feet high. What is the volume of the toy box? Show your work. Include a label with your answer.Volume = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. An A-frame cabin is built in the shape of atriangular prism, as shown. The front wall of thecabin has a length of 9 meters and a height of 7meters. The cabin is 13 meters deep. Find thevolume of the cabin. Show your work. Include alabel with your answer.CCSS_C1_Ch10_L1_PS2.jpgVolume = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

3. Find the volume of the composite figure. Show your work. Include a label with your answer.

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Total Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Complete the F-A-T table to calculate the surface area of each geometric solid. Show all work. Include units of measurement with your answers.**

|  |  |  |
| --- | --- | --- |
| **FACES** | **AREA** | **TOTAL** |
| **front & back** |  |  |
| **top & bottom** |  |  |
| **sides** |  |  |

|  |
| --- |
| **SOLID** |
|  |

**TOTAL SURFACE AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **FACES** | **AREA** | **TOTAL** |
| **Triangles (front & back)** |  |  |
| **Rectangle 1** **(bottom)** |  |  |
| **Rectangle 2****Rectangle 3****(sides)** |  |  |

|  |
| --- |
| **SOLID** |
| CCSS_C1_Ch10_L3_PS6.jpg |

**TOTAL SURFACE AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**