Measurement Hand-In #2

Miss McKechnie

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|  | **Surface Area** | **Volume** |
| **Rectangular Prism** | Find area of 6 sides and add together | Lwh |
| **Triangular Prism** | Find area of 2 triangles and 3 rectangles. Add together. Area of triangle = $\frac{bh}{2}$ and area of rectangle of *lw* | $$\frac{bhl}{2}$$ |
| **Cylinder** | 2πr2 + 2πrh | πr2h |

1. Calculate the **volume** and **surface area** for each of the following objects. Show your work and remember units for full marks:







2. Which of the following has a larger volume? By how much is the volume larger?



3. Using the digits 1 through 9, at most one time each, place a digit in each box to create two rectangular prisms where the larger one has double the volume of the other.



4. What is the greatest volume you can make with a rectangular prism that has a surface area of 20 square units? (hint – you need to find dimensions that will give you a surface area of 20 square units and then find the volume)