Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Core \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cumulative Check In 1.5

Complete each problem. Explain or show your reasoning! Work MUST be shown to receive any credit! Circle your final answer or input your answer into the grid if provided. All answers in the grid must be as decimals or proper or improper fractions (No mixed numbers).

|  |  |
| --- | --- |
| Calculator Inactive (No Calculator) | |
| 1) Simplify: 3 + 1  Grade 6 Math Grid.png | Grade 6 Math Grid.png2) Simplify: 1 x 2 |
| 2) Simplify: 3 - 1 | 4) Find the area of the shaded region:  Image result for area of shaded region |
| 5) Find the area of the shape.  5 in  5 in  6 in  8 in  4 in | 6) Find the surface area of this shape:  Image result for surface area of rectangular prism |
| 7) Find the volume of the shape:  Image result for surface area of rectangular prism | 8) Find the area of this shape:  A shape with six sides. There are two vertical sides measuring five units, two angled sides that fall 2 units over 4 units and two sides that fall 2 units over 2 units. |
| 9) What is the side length of a square with an area of:   1. 64 square inches 2. 122 square inches 3. 1 square centimeter | **10) What is the side length of a cube if the volume is:**   1. 64 cubic inches 2. 133 centimeters3 3. 1 cubic centimeter |