**Lab for Section 6.1** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Use good notation and show appropriate work. Write solutions to application problems in* ***complete sentences***.

1. (a) 0.7% of 790 (b) What percent of 18 is 3? (c) 37% of what number is 210.9?

2. Find the surface area of a rectangular solid with a length of 3.2 centimeters, width of 2.7 centimeters, and height of 0.8 centimeters. The surface area of a rectangular solid is given by the formula 2*lw* + 2*lh* + 2*wh*.

3. Find the volume of sphere with a radius of  feet. The volume of a sphere is given by the formula 
Use the approximation  .

4. Evaluate the expression for each value in the given set. *Reminder: Use good notation.*

(a)  ; {–2, 0, 4}

(b)  ; 

(c)  ; {(4.8, –1.2)}

5. Determine whether the set is a solution set for the equation.

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