**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_Pd: \_\_\_\_**

**Surface Area and Volume Mixed Word Problems**

Directions: (1) Choose & write whether the problem is asking you to find **SURFACE AREA** or **VOLUME**

(2) Write the formula which you would use to solve the problem

***(3) Do STEPS 1 & 2 for all problems before you start solving so we can make sure everyone has the correct formulas to start ☺***

(4) Solve

(3) Label your answer with the correct units

1. Anelize wants to paint her jewelry box blue. The jewelry box is in the shape of a cube and has an edge length of 4 in. How much blue paint will Anelize need?
2. Josiah builds a pool in his backyard. The pool measures 4 feet long, 5 feet wide, and 6 feet deep. How much water will fit in the pool?
3. How many square feet of cardboard does Sophia need to make a rectangular prism with length of 6 inches, width of 2 inches, and height of 4 inches?
4. How much gift wrap is needed to cover a box which measures 3 feet by 2 feet by 3 feet?
5. A package shaped like a cube has an edge that is 3 cm long. How much space is available to pack inside the box?
6. Makalah needs to paint the ***top and sides*** of a rectangular prism. The prism has a length of 2 mm, a width of 5 mm, and a height of 3 mm. How much paint does she need to cover the ***top and sides***?
7. De’andre needs to buy some cardboard to build a box 2 inches long, 4 inches wide, and 3 inches high. How much cardboard is needed to build the box?
8. A cereal company decided to make an odd-shaped box for a promotion they are doing. The new design is a rectangular prism with length of 2 in, width of 8 in., and height of 2 in. How much cereal will fit in the box?
9. The inside of a refrigerator in a medical laboratory measures 7 in by 2 in by 4 in. How much samples can you fit in?
10. A birthday gift is placed inside a box that is 4 inches high, 1 inch long and 3 inches wide. What is the minimum amount of wrapping paper needed to wrap this gift?