**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. Allessia 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 Allessia need?
2. Joseph builds a pool in his backyard. The pool measures 55 feet long, 28 feet wide, and 9 feet deep. How much water will fit in the pool?
3. How many square feet of cardboard does Sienna need to make a rectangular prism with length of 16 inches, width of 9 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 28 cm long. How much space is available to pack inside the box?
6. Mackenzie needs to paint the ***top and sides*** of a rectangular prism. The prism has a length of 25 mm, a width of 15 mm, and a height of 9 mm. How much paint does she need to cover the ***top and sides***?
7. Daniel needs to buy some cardboard to build a box 12 inches long, 8 inches wide, and 10 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 10 in, width of 8 in., and height of 4in. How much cereal will fit in the box?
9. The inside of a refrigerator in a medical laboratory measures 17 in by 18 in by 42 in. How much samples can you fit in?
10. A birthday gift is placed inside the box shown. What is the minimum amount of wrapping paper needed to wrap this gift? Find: h= 14 in, L = 10in, w=7in