Surface Area and Volume-Mixed Word Problems

Directions:

- Determine whether the problem requires you to find the surface area or the volume. Write SA or V on the line next to each problem.
- On a separate sheet of paper, write the formula you would use to solve the problem.
- Solve and you may use a calculator. Put a box around your final answer and don't forget to write the units!!

A	1) Elena 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 Elena need?
A,B	2) Richie 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?
A,B	3) How many square feet of cardboard does Jessica need to make a rectangular prism with length of 16 inches, width of 9 inches, and a height of 4 inches?
А,В	4) How much gift wrap is needed to cover a box which measures 3 feet by 2 feet by 3 feet?
A,B,C	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?
В,С	6) Kris needs to paint the <u>top and sides</u> of a rectangular prism. The prism has a length of 25 mm, a width of 15 mm, and a height of 9 mm. How mucl paint does she need to cover the <u>top and sides</u> ?
 B,C,Acc	7) A tent is in the shape of a triangular prism. The triangles on each end of the prism have a base length of 3 meters, and a height of 4 meters. The height of the triangular prism is 8 meters. What is the surface area of the tent?

