

Surface Area and Volume Part 1 Worksheet of Fun!

Directions: Using a separate piece of paper, carefully complete the following word problems. Clearly show all steps on how you solved each of the problems. A simple answer is not acceptable.

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(Surface Area)?
2. Nicholas has a pepper shaker in the shape of a cylinder. It has a radius of 9 mm and a height of 32 mm. How much pepper will fit in the shaker(Volume)?
3. Reynaldo 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(volume)?
4. How many square feet of cardboard does Jessica need to make a rectangular prism with length of 16 inches, width of 9 inches, and height of 4 inches(Surface Area)?
5. How much gift wrap is needed to cover a box which measures 3 feet by 2 feet by 3 feet?
6. A package shaped like a cube has an edge that is 28 cm long. How much space is available to pack inside the box(volume)?
7. A cylindrical fish tank is 1 foot tall. The radius of the fish tank is 5 inches. How much water does it take to fill the tank? (Be careful – look at the units you are given)
8. Kissie 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?
9. Brittany is going to cover the label on a Pringle's can and decorate it for Easter. The can has a diameter of 4.5 in. and a height of 14 in. She only needs to cover the label, not the top or bottom of the can, what is the minimum amount of paper needed?
10. 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 4 in. and attached to the rectangular prism is a cylinder with a radius of 2 in. and a height of 10 in. How much cereal will fit in the box?