1. **George made his baby brother a cake shaped like a smaller cube is stacked on top of a larger cube. The edge length of the smaller cube is 10 cm, and the edge of the larger cube is 30 cm. How much frosting is needed to cover the cake?**

   Find the <u>surface area</u> of the composed figure. Show your work and include units!

   10 cm
   30 cm

   5 top □s: $5(10 \bullet 10) = 500$

   5 bottom □s: $5(30 \bullet 30) = 4500$

   where both cubes join: $10 \bullet 10 = 100$
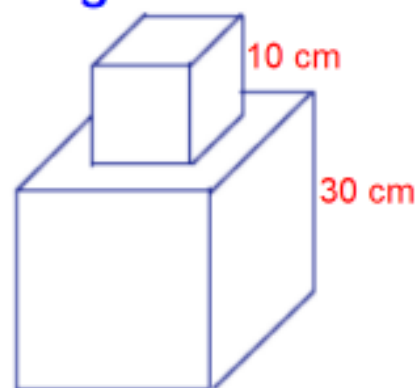
   $$SA = 500 + 4500 - 100 = 4900 \text{ cm}^2 \text{ of frosting}$$

2. **Julia made a kite-shaped box to hold her friend's birthday gift. How much silver paint will it take to cover the box?**
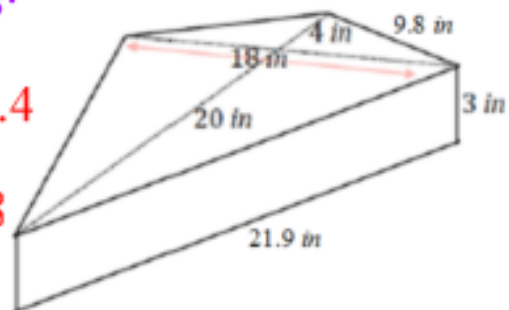
   Find the <u>surface area</u> of the composed figure. Show your work and include units'

   4 in   9.8 in
   18 in
   20 in   3 in
   21.9 in

   2 long side rectangles: $2(3 \bullet 21.9) = 131.4$

   2 short side rectangles: $2(3 \bullet 9.8) = 58.8$

   near top/bottom triangles: $2\left(\frac{20 \bullet 18}{2}\right) = 360$

   far top/bottom triangles: $2\left(\frac{4 \bullet 18}{2}\right) = 72$

   $$SA = 131.4 + 58.8 + 360 + 72 = 622.2 \text{ in}^2 \text{ of paint}$$