## Surface Area in the Real World

## Solve each of the problems by drawing a net and finding the surface area.

1) A pizza box is 15 inches wide, 14 inches long, and 2 inches tall. How many square inches of cardboard were used to create the box?



4) Sydney is painting a rectangular toy box for her little brother. She will paint all 4 sides and the top (she will NOT paint the bottom). If the toy box is 20 inches tall, 12 inches wide, and 25 inches long, how many square inches will she need to paint?



2) What is the surface area of a Rubik's Cube that is 6 cm tall?



3) Angelo is making a replica of an Egyptian pyramid. He is making a square pyramid with a base that is 3 feet long and 3 feet wide. The triangular sides of the pyramid each have a height of 14 feet. How much material will Angelo need to cover the pyramid?



5) DeAndre is making a tent for his hamster. It is 20 cm long, and the triangular bases are 15 cm high and 10 cm wide (see picture below). How much material will he need to make the tent?



## Volume Error Analysis 💰



Sally is a silly little girl that makes silly mistakes! Analyze her work in Column #1, and <u>circle her mistake</u>. In Column #2, explain what she did wrong. In Column #3, show how Silly Sally should work out the problem. Show ALL work!



## **More Volume Practice**

Determine the Volume of each rectangular prism or cube below. Include units and show your work!

1. A cube that is 12 yards wide

2. The box with dimensions of 6 ft  $\bullet$  4 ft  $\bullet$  1  $\frac{1}{2}$  ft

3. Determine the Volume of a rectangular truck bed that is 12 feet long, 5 1/4 feet wide, and 3 feet deep.

4. How much water can be poured into a cubic tank that is 2  $^{\prime\!\!/}_{\!\!/}$  feet long?

5. What is the volume of a gift box that is 3 ½ inches wide, 2 inches tall, and 6 inches long?