Name	Date	Class
Additional Practice		Investigation 1
• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••	Filling and Wrapping
1. At the bottom of the page are four a folds into an open box. The other ne questions for each net.	nets that will fold into rectangular ets fold into closed boxes. Answer	boxes. Net <i>iii</i> the following
a. What are the dimensions of the l	box that can be made from the net	1?

- **b.** What is the surface area of the box?
- **c.** What total number of unit cubes would be needed to fill the box?



Name	2	Date	Class
Add	itional Practice (continued)		Investigation 1
•••••		•••••	Filling and Wrapping
2. a.	2. a. Gina has a sheet of cardboard that measures 9 feet by 6 feet. She uses		
	scissors and tape to make the entire sheet of cardbo	ard into a closed box	X

b. What is the length of each edge of the box? Explain your reasoning.

that is a perfect cube. What is the surface area of the box?

- **c.** How many unit cubes would it take to fill the box?
- **3. a.** Bill has a sheet of cardboard with an area of 10 square feet. He makes the entire sheet of cardboard into a closed rectangular box. The four sides of the box have the same area, and the two ends have the same area. The area of each of the four equal sides is twice the area of each end. What is the area of each face of Bill's box?

- **b.** What are the dimensions of Bill's box?
- **c.** How many unit cubes would it take to fill the box?