

# TESTING THE VOLUME OUT THERE!

$\text{length} \times \text{width} \times \text{height} =$

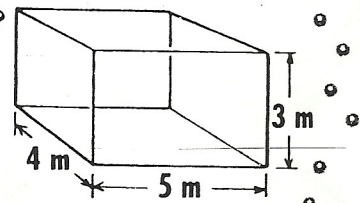
In this activity, you will choose your own boxes and determine their volumes. Choose four boxes such as those that hold cereal, crackers, shoes, or oatmeal. Estimate the volume of each box and write the number in the chart below. Then find the volume of each box. Record the volumes in the chart and find the differences.

Have the partner guess the volume. The partner with the smallest difference wins the game!

		ESTIMATED VOLUME	ACTUAL VOLUME	DIFFERENCE
Box _	you			
	your partner			
Box _	you			
	your partner			
Box _	you			
	your partner			
Box _	you			
	your partner			

Is the surface area of each of these boxes the same as its volume? To find out, find the surface area of each box and compare.

Example: volume =  $4 \times 3 \times 5 = 60 \text{ m}^3$   
 surface area =  $15 + 15 + 20 + 20 + 12 + 12 = 94 \text{ m}^2$



VOLUME

SURFACE AREA

box	_____	_____
box	_____	_____
box	_____	_____
box	_____	_____

## More Measurement Fun! - optional

Find boxes at home that are 30 cubic centimeters, 50 cubic centimeters, and 100 cubic centimeters. What are the boxes used for? \_\_\_\_\_

