shapes using measurement and computational tools.

Open the TI-Nspire document We've_Got_You_Covered.tns.

In this activity, you will be given photos of shapes from outside of

Move to page 1.3.

Press	ctrl and ctrl 4 to	
naviga	te through the lesson.	

1. In each picture of items from outside of the classroom, you will construct and measure the line segments you need to calculate the area of the 2D shape that you choose. Follow these steps:

- Use only the Segment tool and the Perpendicular tool when drawing on the pictures.
- Double-click on the value of the scale and change it until the measures are more appropriate for the object. Look at a meterstick, ruler, or items in your classroom to help you <u>estimate</u>.
- When the measurements are more realistic for the object, calculate its area by inserting a Calculator Page (ctrl [+page] enter)
- Enter your results into the table below.

Draw your shape with measurements:	Area formula(s) used:	Calculated Area: (show your work)
Long Brick		
The Grate		
\bigcirc		
The Emblem		

Name	
Class	

In this activity, you will be given photos of

shapes from outside of the classroom and then asked to determine the areas of these

We've Got You Covered: 2D Area

shapes using measurement and computational tools.



Press ctrl) and ctrl 4 to



Name	
Class	

Draw your shape with measurements:	Area formula(s) used:	Calculated Area: (show your work)
The face of the parking barrier		
The Emblem		
The Sign		
The Letter A		

- For picture 1.3, there are two different faces of the bricks shown, one long and the other short.
 Visually, it may appear that the area of two of the shorter brick faces is the same as the area of the longer brick face. Is it true? Explain why or why not.
- 3. In picture 1.4, there is a rim around the outside of the drainage cover. What is the area of just the rim? Show your work to justify your answer.



4. Suppose the identical trapezoidal faces of the parking barriers on picture 1.6 are to be painted with reflective paint. If one can of reflective paint covers approximately 22 square feet, how many cans will be needed to spray all the faces? Show your work.