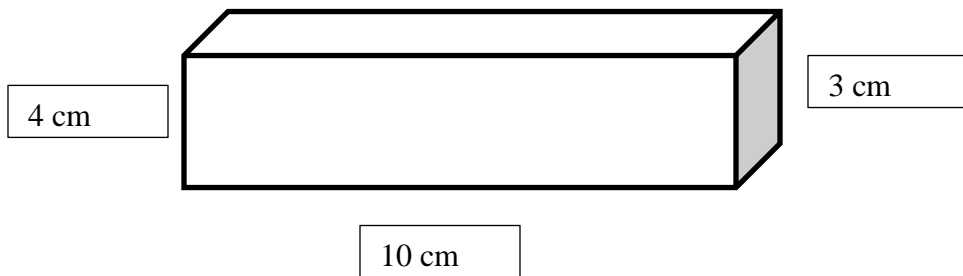



1. Fill up the small box with the 1-cm cubes.
  - a. How many 1-cm cubes does it take to fill up/make up the length of the box? \_\_\_\_\_
  - b. How many 1-cm cubes does it take to fill up/make up the width of the box? \_\_\_\_\_
  - c. How many 1-cm cubes does it take to fill up/make up one full layer across the bottom? \_\_\_\_\_
  - d. How many 1-cm cubes does it take to fill up/make up the height of the box? \_\_\_\_\_
  - e. Determine the number of 1-cm cubes it takes to fill the box. Write down the total number of cubes and describe how you came to this total.

3. How many 1 cm volume cubes would fit into the 3cm x 4cm x 10cm shape below?



4. List 3 possible combinations of length, width, and height that will give a volume of  $24 \text{ cm}^3$ . Calculate the area of the topside. Then sketch the object.

	Sketch	Length	Width	Height	Volume
Example		2 cm	3 cm	4 cm	$24 \text{ cm}^3$
		_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____

5. Object A is reshaped into object B; would the same number of 1cm blocks fit into object B? Explain your thinking

