

# **MATHEMATICS 404**

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## I. PART ONE

#### Learn Box

I can learn about flat and solid shapes.
I can learn about dimensions.



You will need a ruler.

1.1	Mat	tch the figure to its nam	e.				
1.1	Mat	a.  b.  c.  d.	1. 2. 3. 4. 5. 6. 7.	oval hexagon pentagon square octagon triangle circle diamond			
		e.	9.	rectangle	i.		
In mathematics, we describe a flat shape as a plane shape.  1.2 Is each of the figures above a plane shape?							
We may say that each one of these figures belongs to the general group of plane shapes.							
Polygons are closed, plane figures with 3 or more sides.							
1.3	Loc	ok at the figures above.					
	a.	Is each of these figure	s a c	losed figure?	-		
	b.	Do all the sides meet and join each other?					
	c.	c. Does each figure have three or more sides?					
	d.	Which ones do not have	ve th	ree or more sides?	-		

Plane shapes are all around us. The piece of paper you are writing on is an example of a rectangle. Doors and windows are rectangles. Watch the road signs when you are riding in a car. Make a list of all the examples of polygons and plane shapes that you find.



Rectangles and squares can be measured using length and width. The length is the longer side, and the width is the shorter side. Length and width are called dimensions.

The **dimensions** of rectangles and squares are length and width. Rectangles and squares are two dimensional figures.

		1½ inches				
	1 inc	h				
		A.			В.	
1.4		he dimensions figure A.	length		width	
1.5	Measure figure B. Write the dimensions.		length		width	
1.6		he name of each planing of this section to		its definition.	Look at the figu	ıres at the
	a. Th	ree-sided polygon				
	b. Four-sided polygon with all sides equal					
	c. Four-sided polygon with opposite sides equal					
	d. A	four-sided polygon	that stand	s on end		

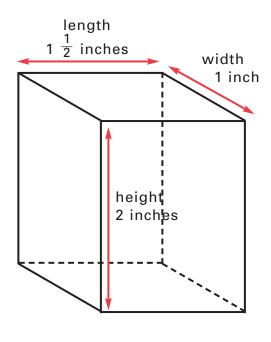
	e.	A closed plane shap	e wi	th no straight si	des		
	f.	Five-sided polygon					
	g.	Six-sided polygon					
	h.	Eight-sided polygon	1		-		
	i.	A flattened closed p straight sides	lane	shape with no			
1.7	Wh	at is another word to	desc	cribe a plane sh	ape?		
1.8	Hov	w many sides must a	poly	gon have?	-		
1.9	Wh	Vhat do we call the length and width of a rectangle?					
1.10	Mat	tch the solid shape w	rith it	s name.	c		
			1.	cylinder	_		
	a <u>.</u>		2.	cube			
			3.	sphere	<u>d.</u>		
		b.	4.	pyramid			
			5.	cone		<u>e.</u>	

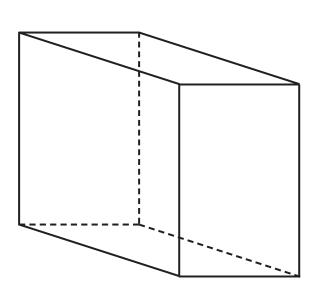
Plane shapes are flat **shapes**. They do not take up space. **Solid shapes** do take up space.

Most of the objects around us are solid shapes. Chairs, desks, and tables are all examples of solid shapes.









A.

1.11 Write the dimensions of figure A.

length \_\_\_\_\_ width \_\_\_\_ height \_\_\_\_

В.

1.12 Measure figure B.

Write the dimensions. length \_\_\_\_\_ width \_\_\_\_ height \_\_\_\_

The sides of a solid are called faces.

1.13 Look carefully.

How many faces do you count for figure A? \_\_\_\_\_\_ B? \_\_\_\_\_