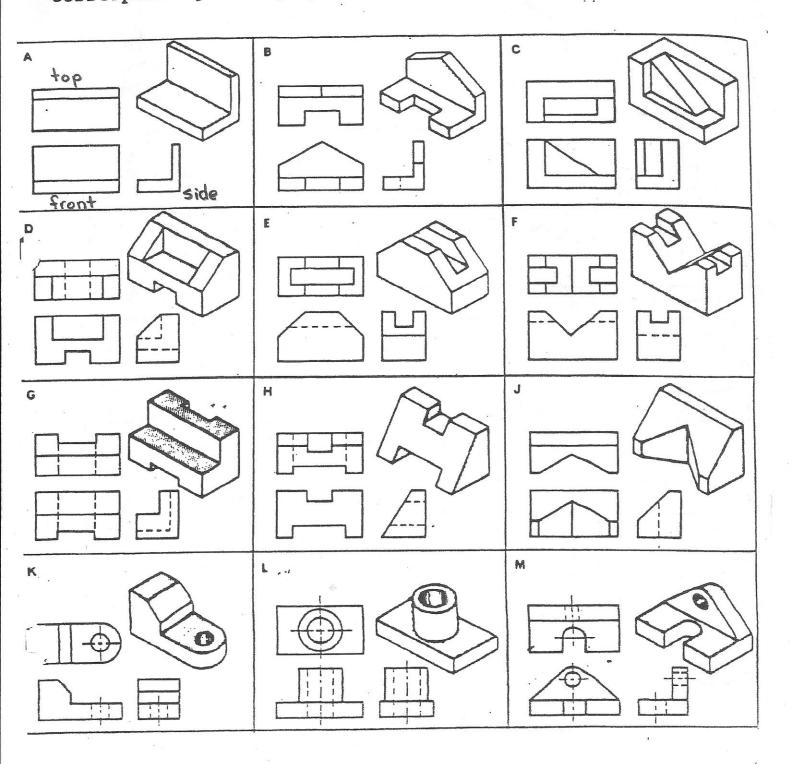
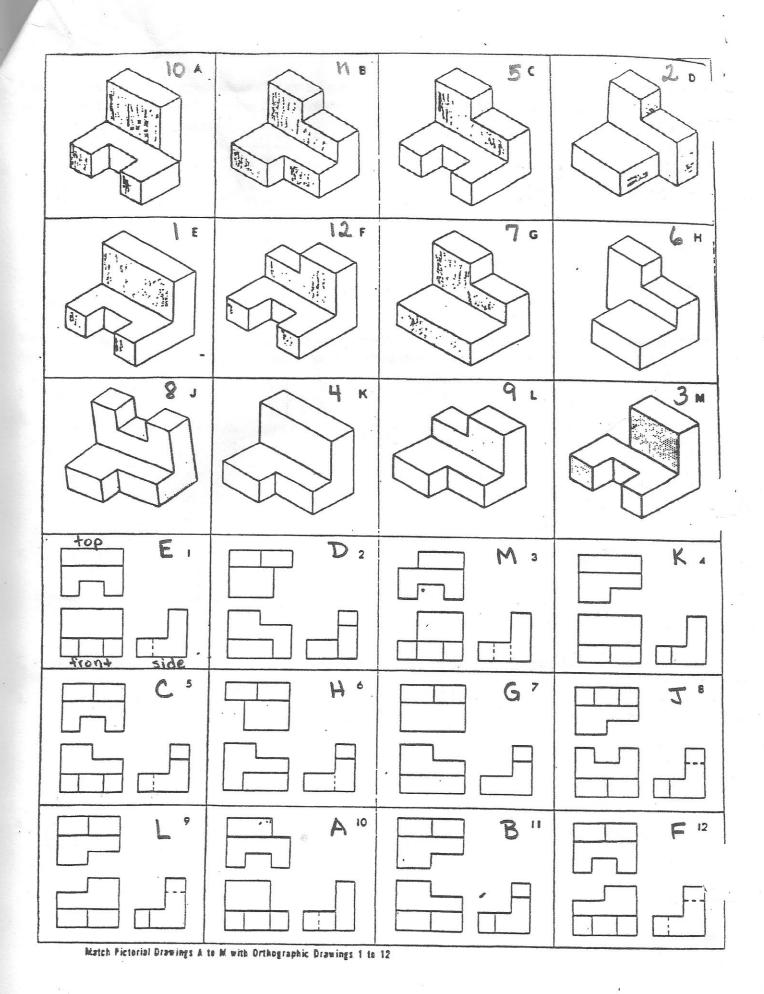


THE ILLUSTRATIONS BELOW SHOW A FIGURE AND ITS ORTHOGRAPHIC DRAWINGS. CLOCKWISE FROM THE UPPER RIGHT CORNER ARE THE FIGURE, ITS SIDE VIEW, ITS FRONT VIEW, AND ITS TOP VIEW. AFTER STUDYING EXAMPLES A THROUGH M CAREFULLY, WORK ON THE EXERCISES ON THE FOLLOWING PAGE.

INSTRUCTIONS: Match the pictorial drawings A - M to the corresponding orthographic drawings 1 - 12.







1-2 Exploring Three-Dimensional Figures

The adaption and black line represents one							
Example: Various orthographic views of a solid figure are shown below. The edge of one black line represents one unit of length. Draw the orthographic back view and then draw a front, right corner view.							
		atility .					
	: = :::::::::::::::::::::::::::::::::::						
top view left view front view right view .							
1-2 Worksheet		¥.					
Various orthographic views of a solid figure are shown below. The edge of one black line represents one unit of							
length. Make a model of each figure. Then draw t							
1		2 B					
	• • • • • • • • • • • • • • • • • • • •						
top view left view front view right view	· · · · · · · · · · · · · · · · · · ·						
	8 8 8 8 8 8 8 8						
		in the second se					
2 — — — —							
top view left view front view right view							
	,						
From the orthographic views of a solid figure given below, draw the front-right corner view.							
3. 2 2		* . * .					
top view left view front view right view		*					
	*******	• • • •					

right view

top view

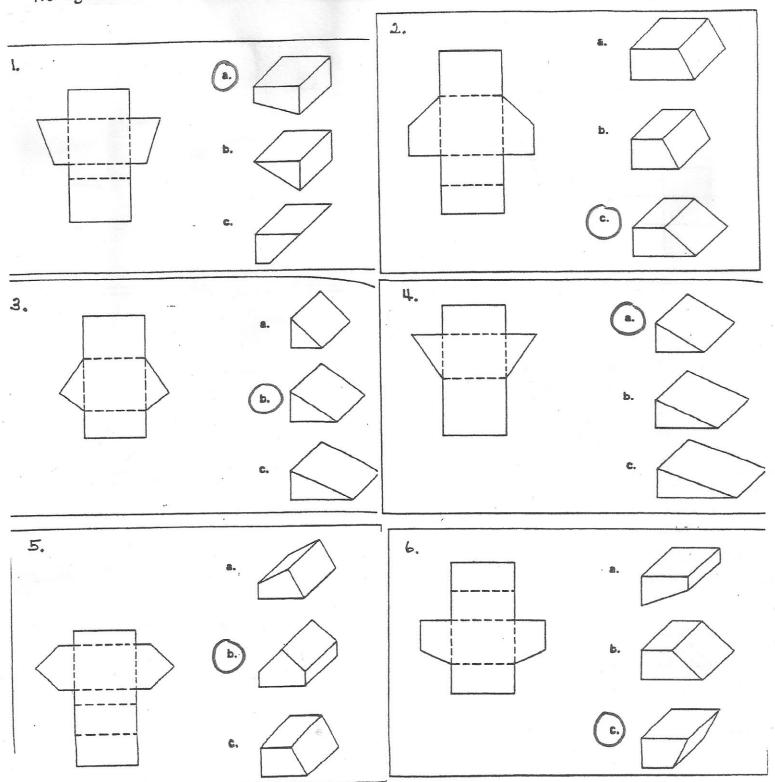
left view

front view

The front-right corn views of the figure.	ner view of a figure	is given below. D	raw the orthograph	ic top, left, front, r	ight, and back		
	田			right view	back view		
	top view	left view	front view	rigiti view	DUCK VIEW		
From the orthographic views of a solid figure given below, draw a front right corner view.							
6. top view left view	w front view rig	ht view					
7.		Ъ :					
top view left view	y front view rig	ht view					
8.							
top view left vie	ew front view r	ight view		• • • •			
The front-right corner the figure.	view of a figure is	given. Draw the o	orthographic top, let	ft, front, right, and	back views of		
9							
			用…				
	top view	left view	front view	right view	back view		
10.							
• • •	top view	left view	front view	right view	back view		

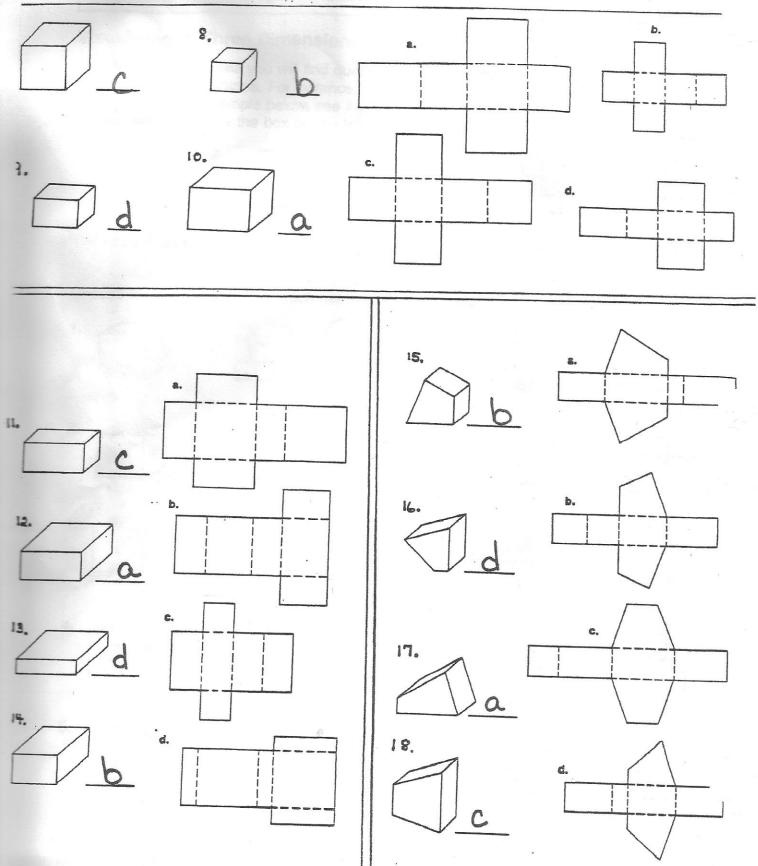
PATTERN FOLDING-SELECT

Each pattern on the left is a wrapper for one of the solids on the right. Draw a circle around the correct solid.



PATTERN FOLDING-MATCHING

Each solid on the left can be covered by one of the wrappers on the right. Write the letter of the matching wrapper on the line by each solid.



Lesson

Name

12 - 9

Visualizing in Three Dimensions

On some aptitude tests you will find questions which ask you to visualize threedimensional constructions. For instance, you might be asked to "fold" patterns in your mind. In the example below, see if you can guess which pattern, when folded, would produce the box on the left.













The correct answer is A.

Choose the one pattern from each set that could be folded into the box shown.









D.







B.





D.











D.







B.





D.







B.





D.



CUBE FLIP AND JURN

A CUBE CAN OCCUPY A SPACE IN 24 DIFFERENT WAYS.
CAN YOU FILL IN THE MISSING LETTERS?

