

# SMILE WORKCARDS

## 3-D Pack One

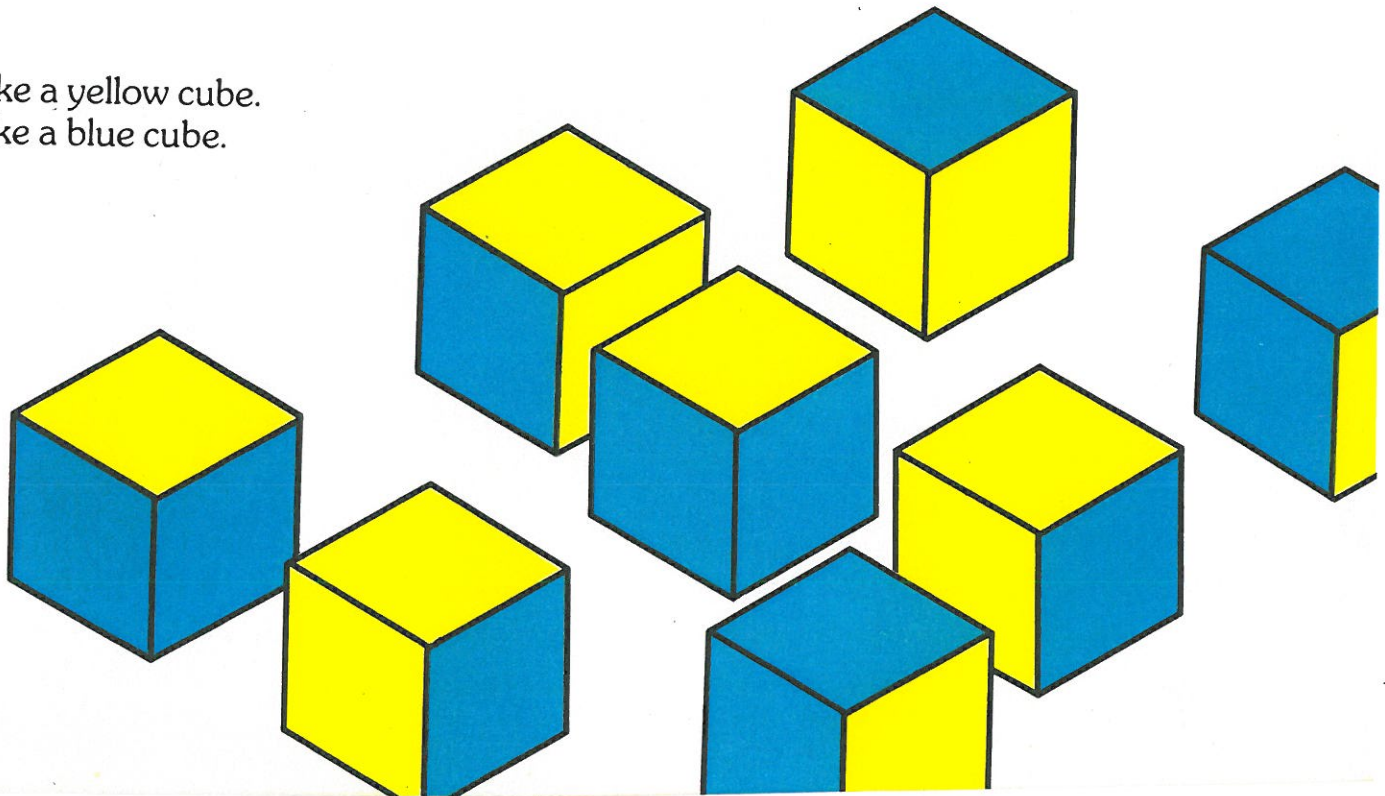
### Contents

	Title	Card Number
1	Eight Cubes	1522
2	A Red Cube	1523
3	Looking Around w/s	617
4	Four Cubes	1867
5	Solids w/s	404
6	Solid Shapes	1322
7	Two by Two	1765
8	Back to Back	1872
9	A Red Cube	1523
10	Half a Cuboid	2071
11	Prism or Pyramid? w/s	1321
12	Dice	1377
13	Isometric Drawing	70

# Eight Cubes

You will need 1522A (8 cubes)

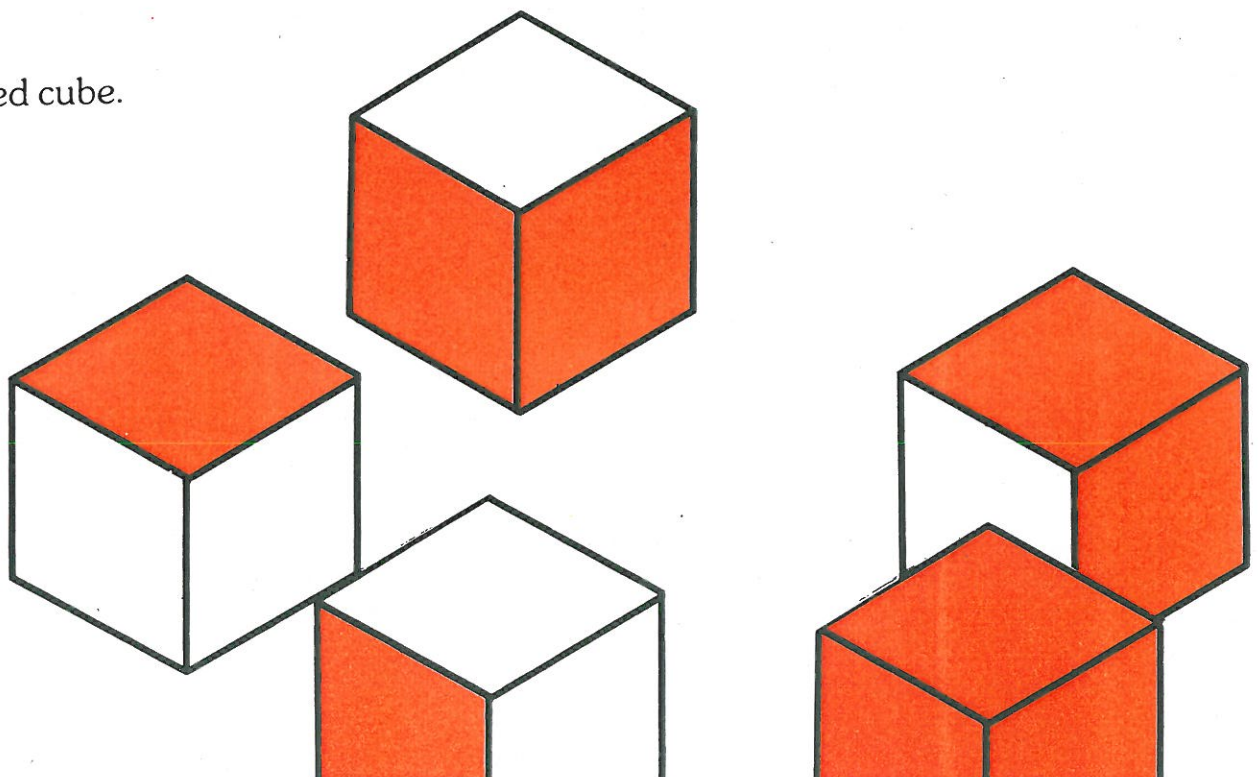
Make a yellow cube.  
Make a blue cube.



# A Red Cube

You will need 1523A (27 cubes)

Make a red cube.



# LOOKING AROUND

Everything has shape...  
...and there is a word  
to describe each shape.

Look around to find  
examples of these  
shapes.

Look in the classroom.  
Look outside.  
Look at home.

List as many as you can.

Which solid has most  
examples? Why?

---

---

---

---

---

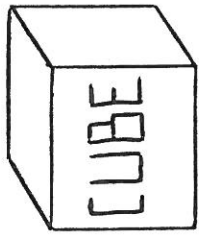
---

---

---

---

---




---

---

---

---

---

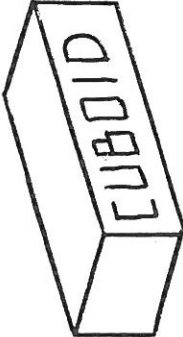
---

---

---

---

---



CUPBOARD

---

---

---

---

---

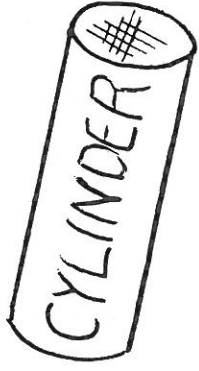
---

---

---

---

---




---

---

---

---

---


---

---

---

---

---




---

---

---

---

---

---

---

---

---

---



---

---

---

---

---

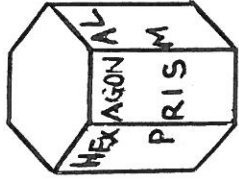
---

---

---

---

---




---

---

---

---

---

---

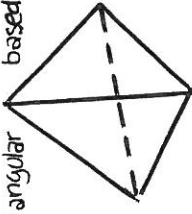
---

---

---

---

TETRAHEDRON  
(Triangular based pyramid)




---

---

---

---

---


---

---

---

---

---




---

---

---

---

---

---

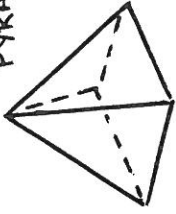
---

---

---

---

SQUARE BASED  
PYRAMID




---

---

---

---

---

---

---

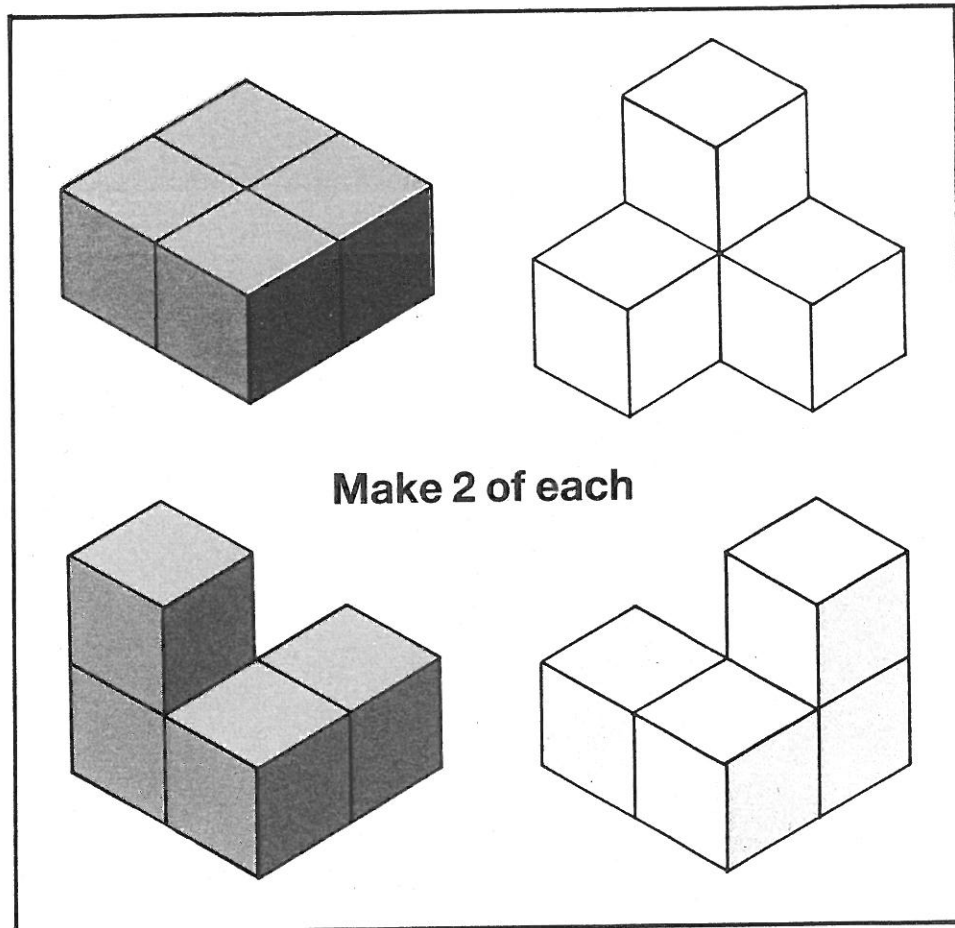
---

---

---

# Four Cubes

Each of these solids is made of 4 cubes.

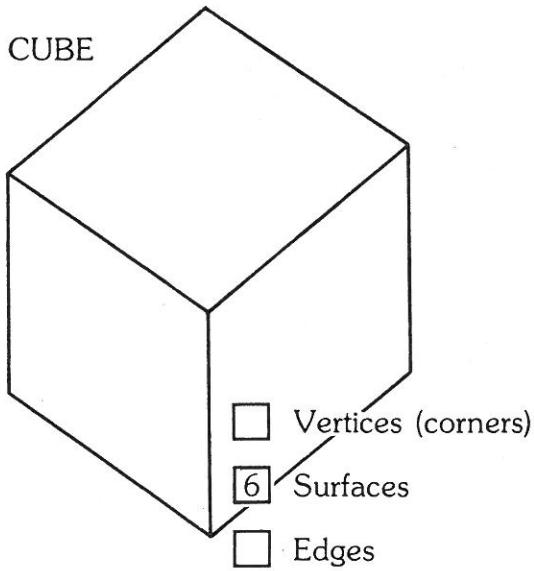


Use your 8 solids to make 4 larger cubes.

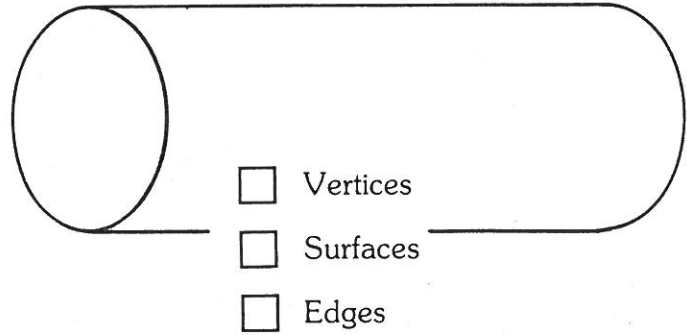
*What do you notice?*

# SOLIDS

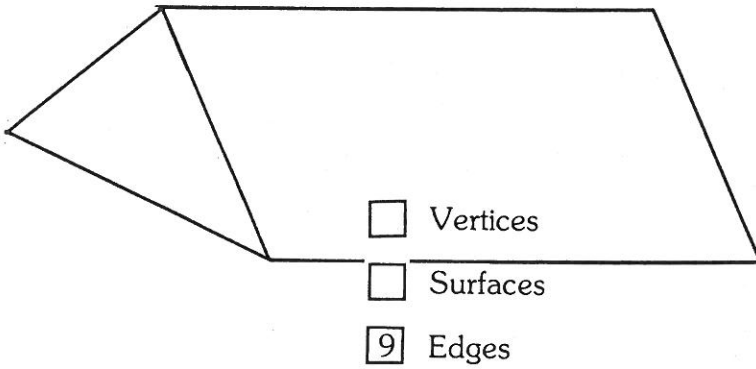
CUBE



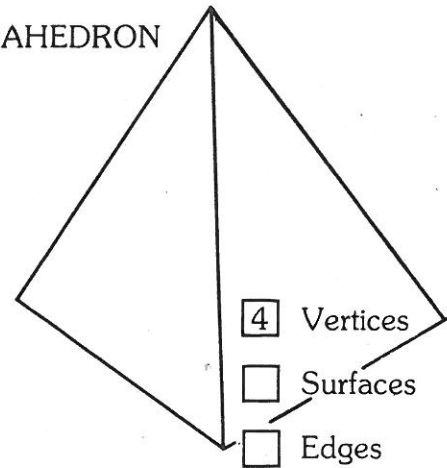
CYLINDER



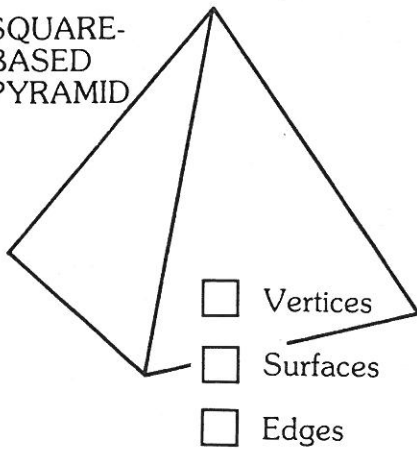
TRIANGULAR PRISM



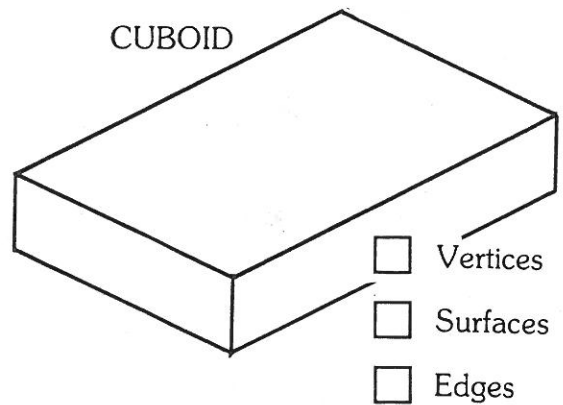
TETRAHEDRON



SQUARE-BASED PYRAMID



CUBOID

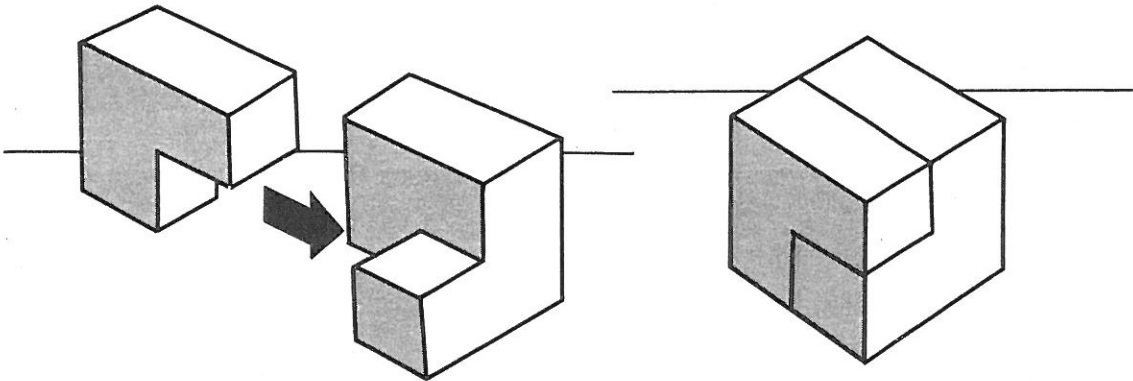


If there are more solids in your box, draw some of them and count their vertices, surfaces and edges.

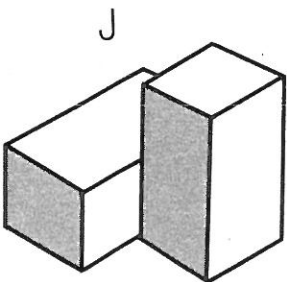
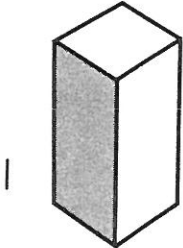
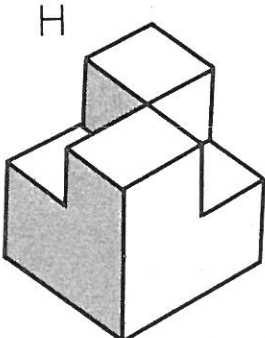
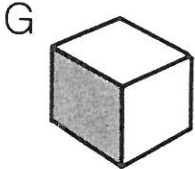
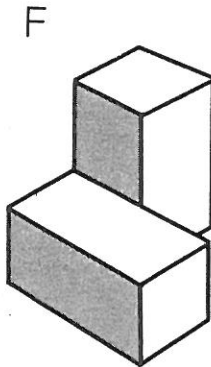
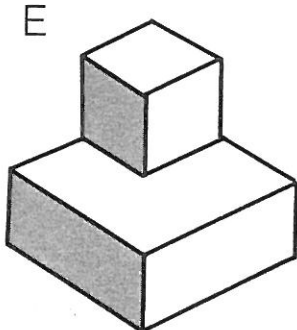
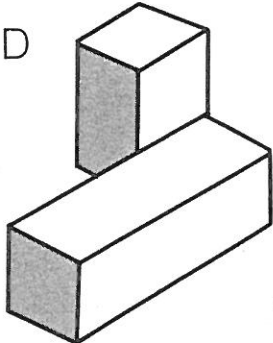
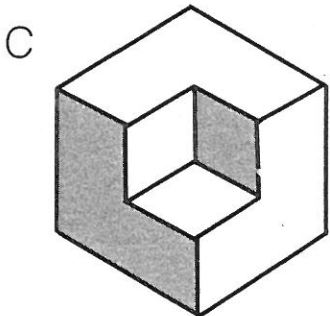
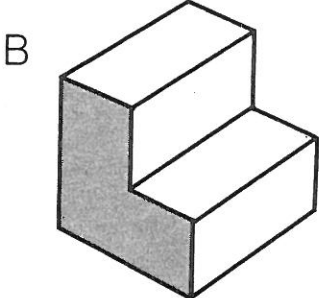
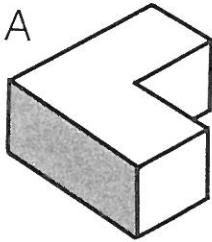




# Two by Two



Four pairs will build four cubes. *Can you match the pairs?*

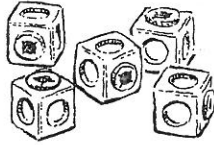


# BACK TO BACK

Smile 1872

an activity for two people.

You will need  
multi-link cubes.



Sit back to back.  
One person make a solid  
from some of the cubes.

Describe it to your partner so that she  
can build one exactly the same.

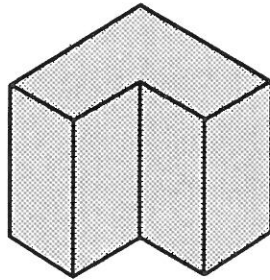




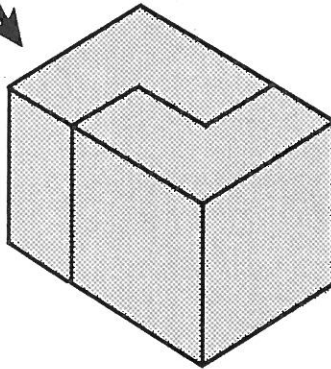
# Half a cuboid

You will need centicubes or multilink.

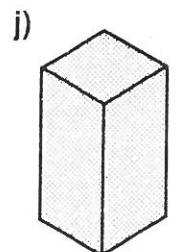
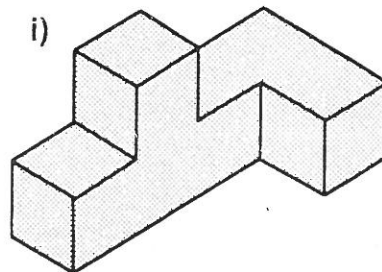
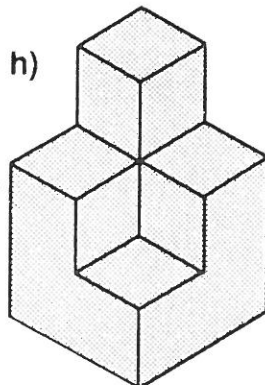
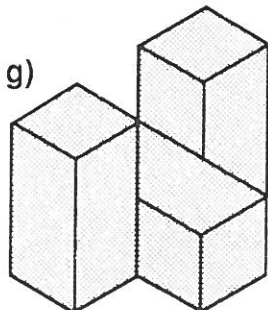
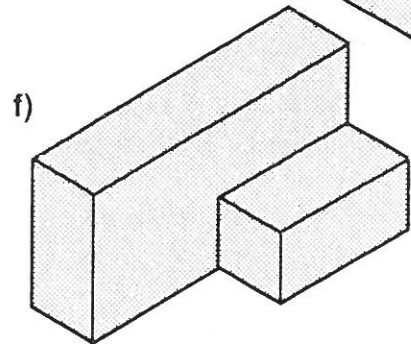
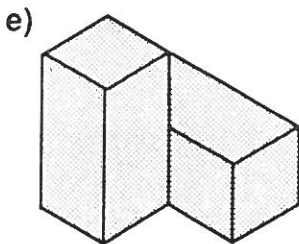
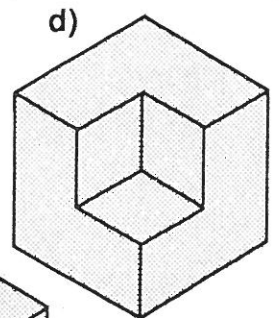
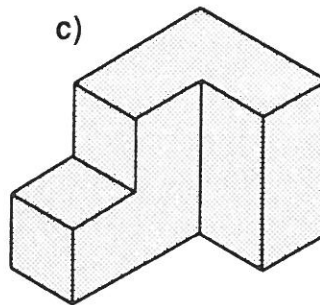
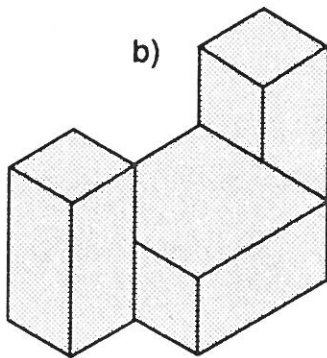
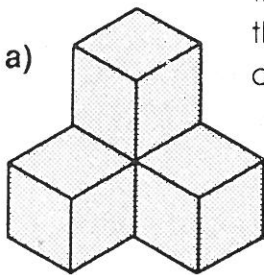
Make two solids like this.



Fit them together to make a cuboid.



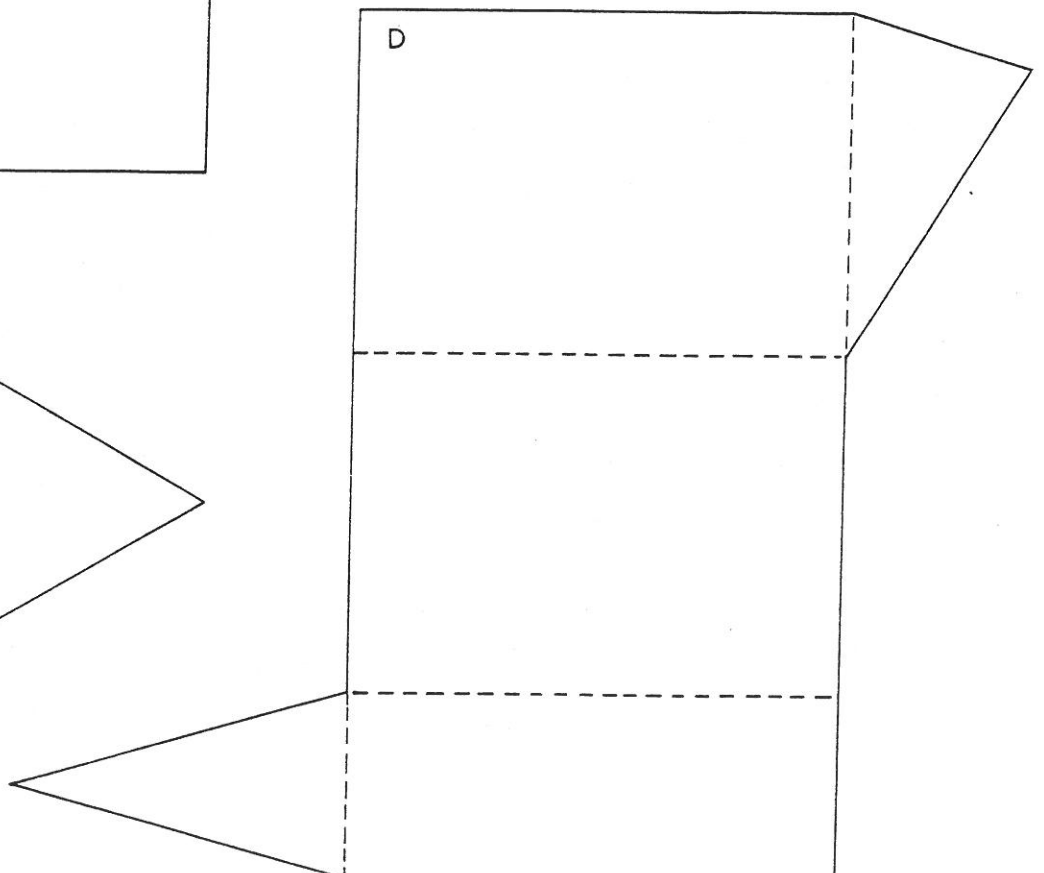
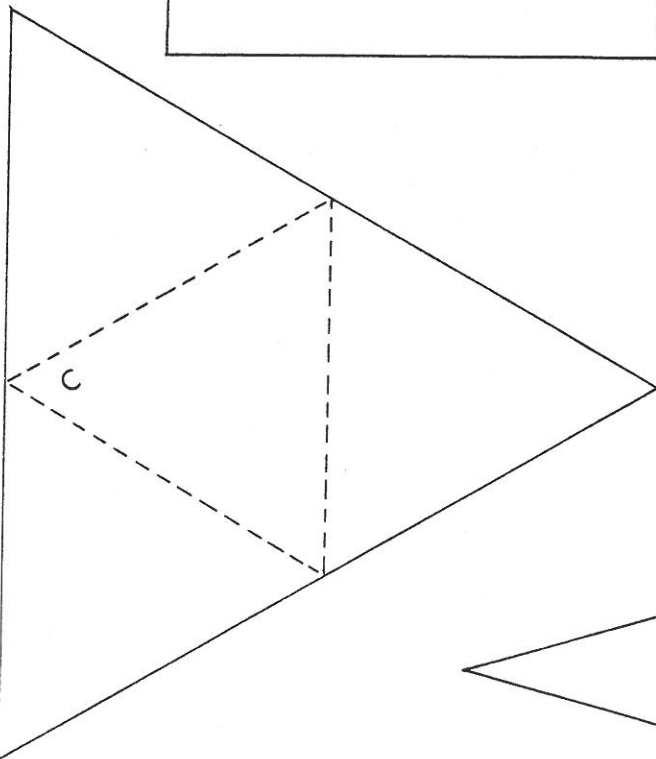
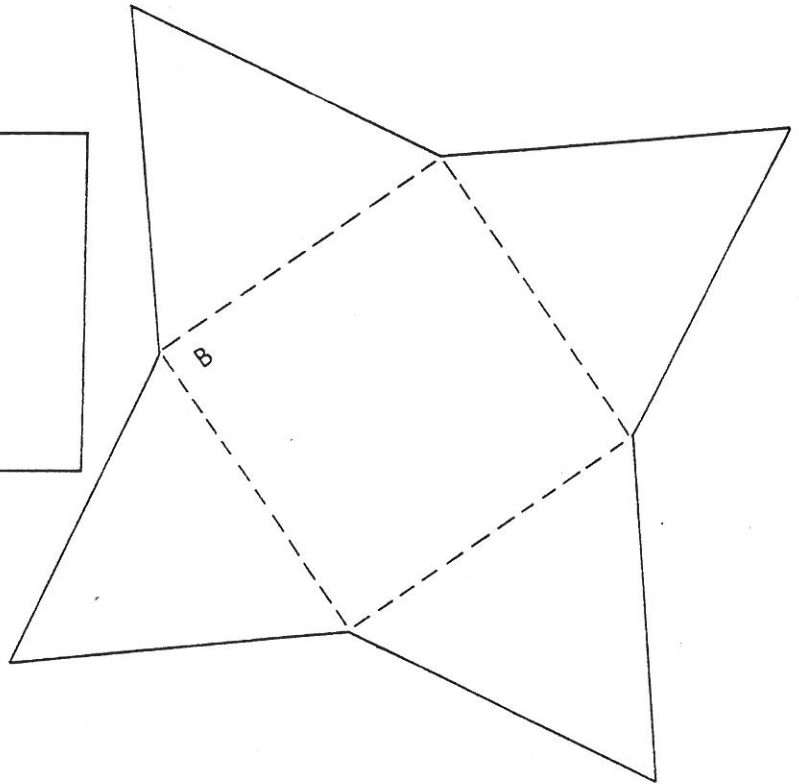
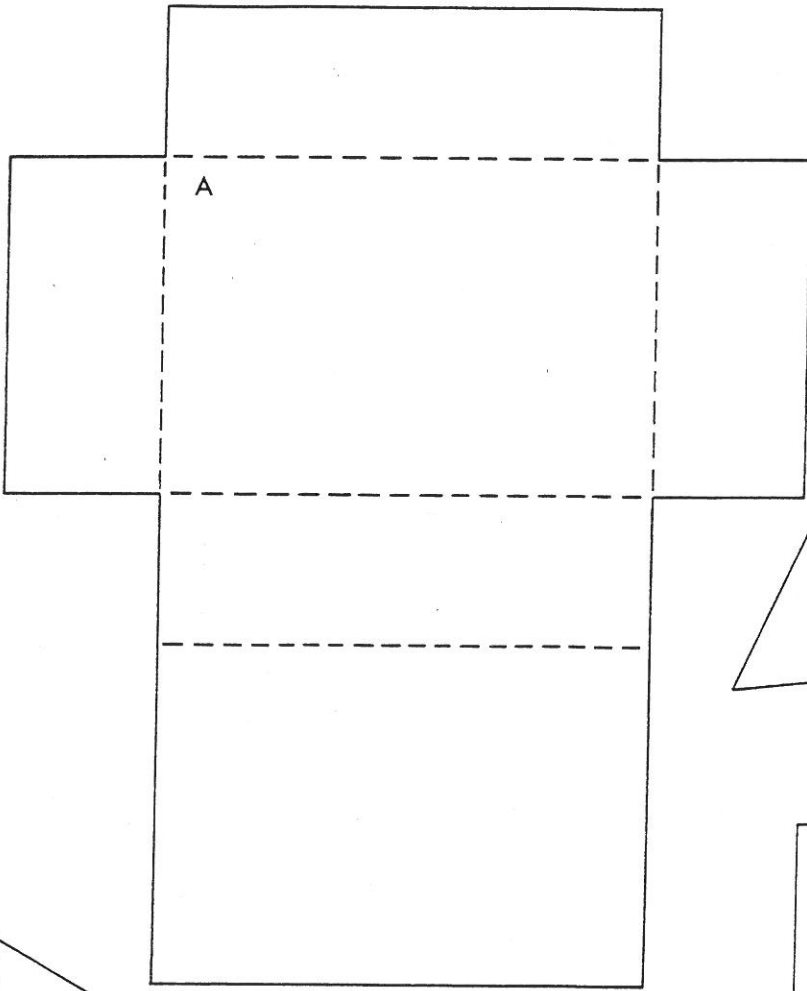
If you had two of each of these solids could you fit them together to make a cuboid?



# Prism or Pyramid?

Smile Cut-out sheet 1321

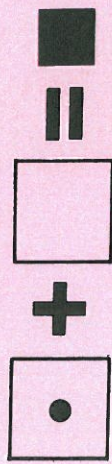
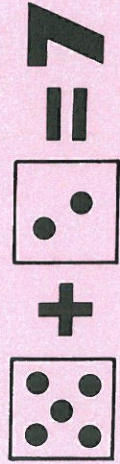
Which nets make pyramids? *Find out.*



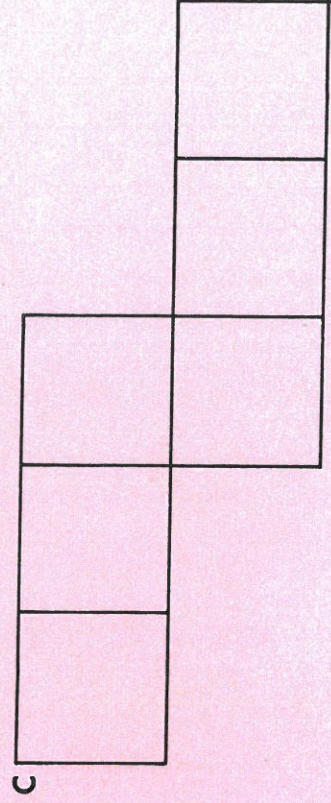
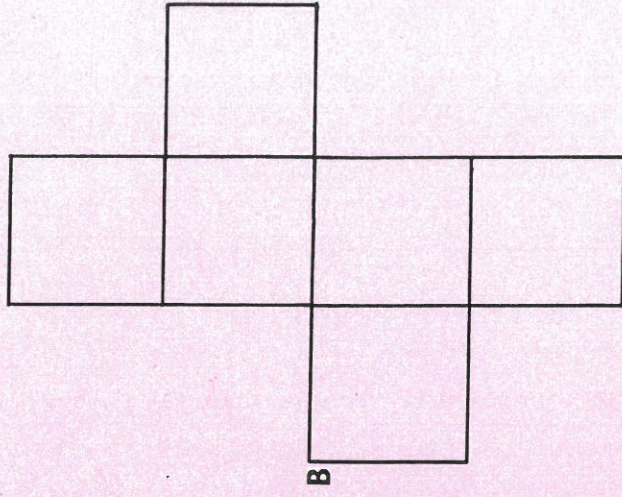
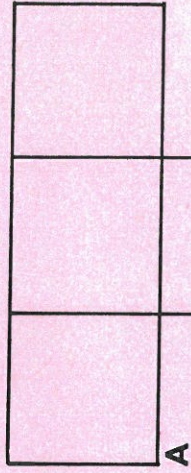


# DICE

1. Add the dots on opposite faces of a dice.



2. Copy nets **A**, **B** and **C** onto squared paper.
3. Draw dots on **A** so that it will make a dice – don't forget, opposite faces add up to 7.
4. Cut out **A** ... and fold it. Are your dots in the right places?
5. Now draw dots on **B** and **C**. Cut them out to check that your dots are in the right places.
6. Stick the nets in your book.

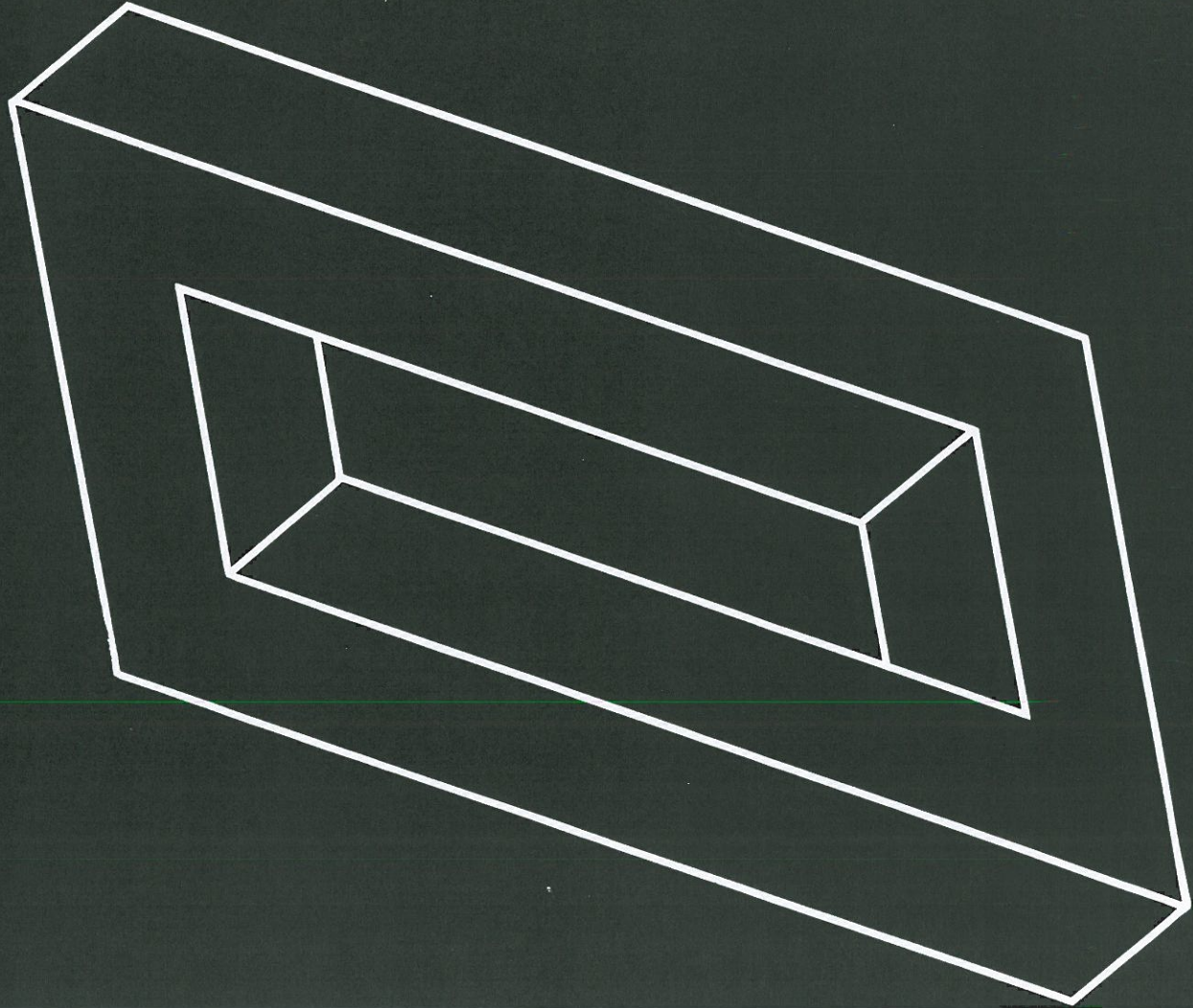




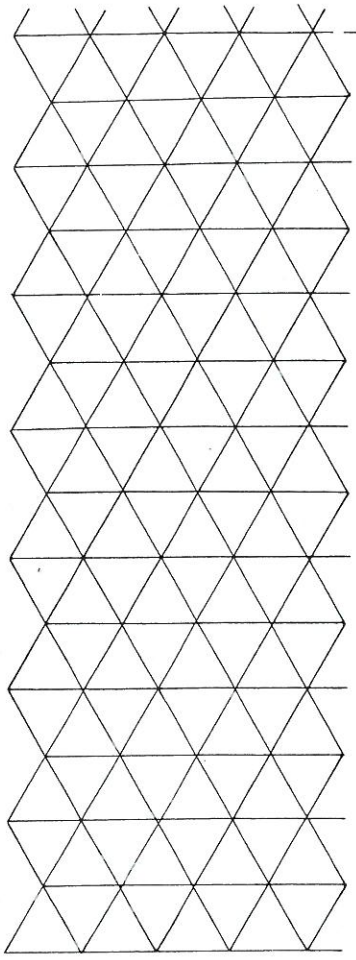
You will need isometric paper and centicubes.

Sample 0070

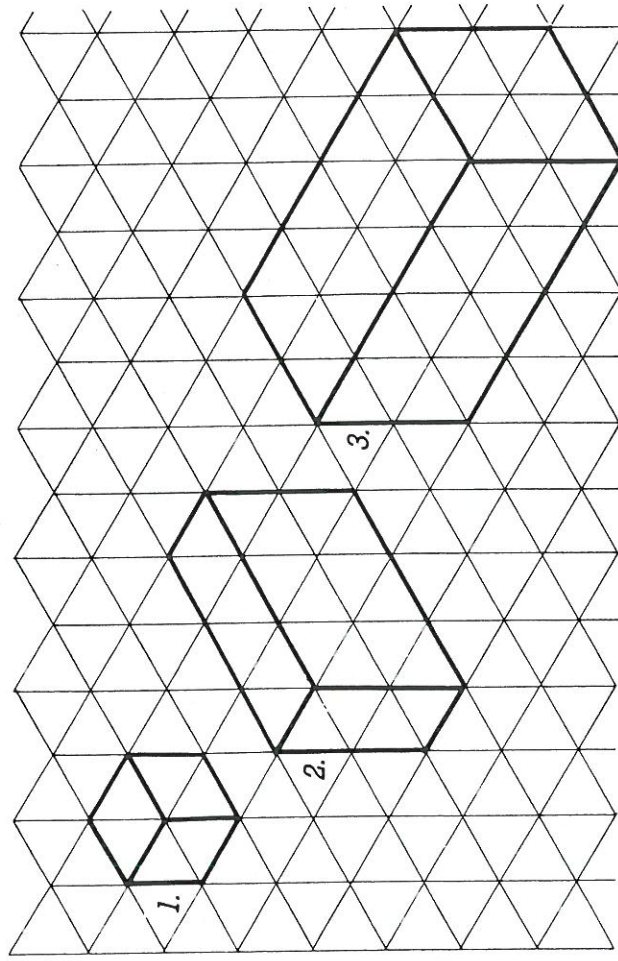
# Isometric Drawing



Use your paper this way up ...



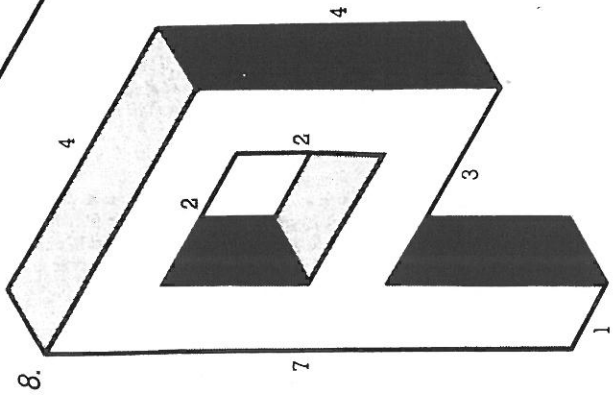
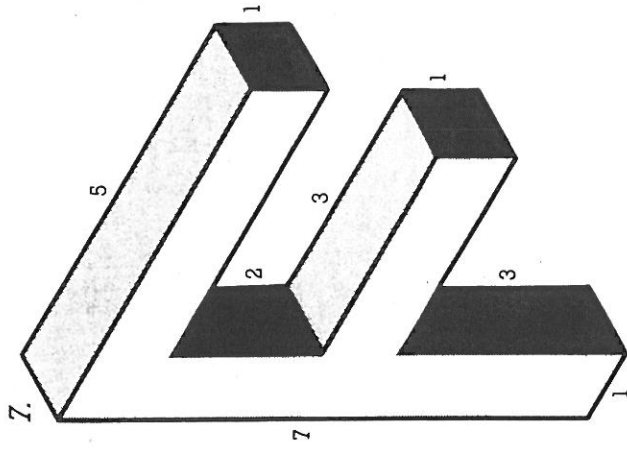
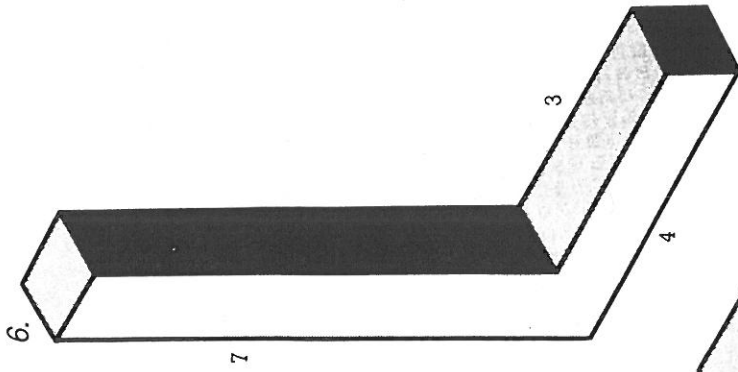
and draw these:



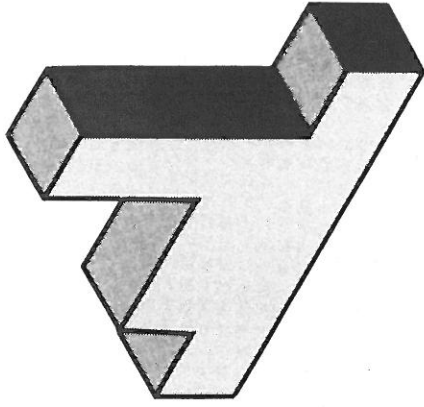
Make and draw these.

4. A shape using 8 centicubes.
5. A shape using 10 centicubes.

Make these shapes with centicubes. Then draw them.



9. Make and draw some solid shapes of your own. Use three colours to shade each drawing with parallel planes in the same colour like the example below.



Turn over