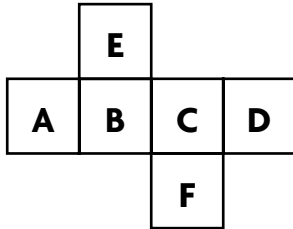


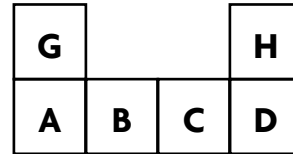
## Patterns for Solid Figures

There are many ways to join 6 squares edge to edge. Some arrangements form nets that can be folded into cubes. Others do not.

This net will fold to form a cube.



This net will not form a cube. Squares G and H fold into the same position.



Use the computer.

Click **New Net**. Study the position of the five shaded squares.

1. Shade the same five squares in this grid. Mark the letter of a sixth position that will form a net for a cube.
2. Enter your choice into the computer. Does the computer agree?

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

Click **New Net**. Copy the shaded squares and enter your choice for the sixth face. Check by entering your choice into the computer. Do this three times.

3.

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

4.

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

5.

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

6. Click **All Nets** and copy the letters for the given faces. Then write down all the possible places the sixth face could be. Check your answer on the computer, and correct it if you need to.

given \_\_\_\_\_

choices \_\_\_\_\_

**There are 11 different nets that will make a cube.**