



PYRAMID POWER

R A I N B U S T E R

Can You Build all 65?

Using the Zome System balls and struts, try to find 65 different* triangular pyramids. (See "Puzzler Beware" at right.) In mathematics, a pyramid with a triangular base is called a **tetrahedron** meaning "4 faces". You can see several examples of triangular pyramids on this page.

How to Solve the Pyramid Power Brainbuster:

- 1. Look at the chart in the following section and select the balls and struts you need in order to make the first pyramid.
- 2. Try to fit the parts together so they form a triangular pyramid made of four triangles joined edge to edge.

3. When you succeed, check it off on the chart, and go on to the next pyramid.

If you get stuck, the answers are illustrated nside the fold-out section. Use these to confirm each solution.

Open the fold-out section whenever you're ready to

check your solution or when you get stuck. Here's a mathematical mystery rooted in the wisdom of the

Remember, build each pyramid one at a time, you can't build all 65



Good Luck!

*PUZZLER BEWARE:

- Mirror Images If your version is a mirror image of on you see pictured, it counts as one of the 65 pyramids.
- . Proportional Pyramids Sometimes you can make two different sizes of the same pyramid, but it still counts as one of the 65. (If you find one, each strut is just one size bigger than the one shown in the chart and on the key.
- Flat Pyramids Pyramids where all the balls lie in the same plane don't count.

PYRAMID POWER

B R A I N B U S T E R

ancient Greeks, Egyptians and Babylonians. Inside the net bag are 37 Zome pieces that can be rearranged 65 different ways using 16 or fewer pieces — to build 65 unique pyramids. Can you find them all? Build them one at a time using the chart at right, checking off each pyramid as you solve it. (You cannot build all 65 pyramids at the same time.)

The Pyramid Power Brainbuster contains 37 Zome Pieces, with 7 Zome Balls and 30 Struts in the indicated lengths (short, medium or long) and colors (blue, yellow or red).





