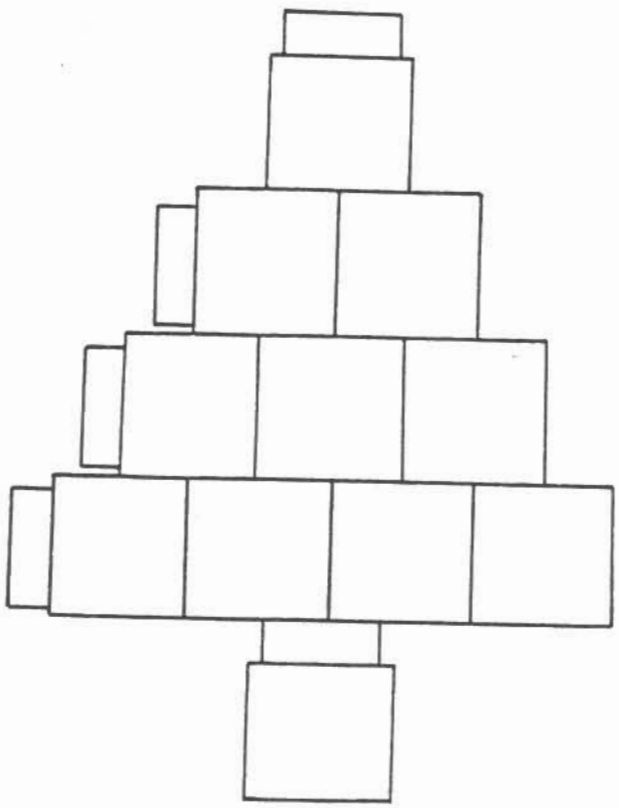
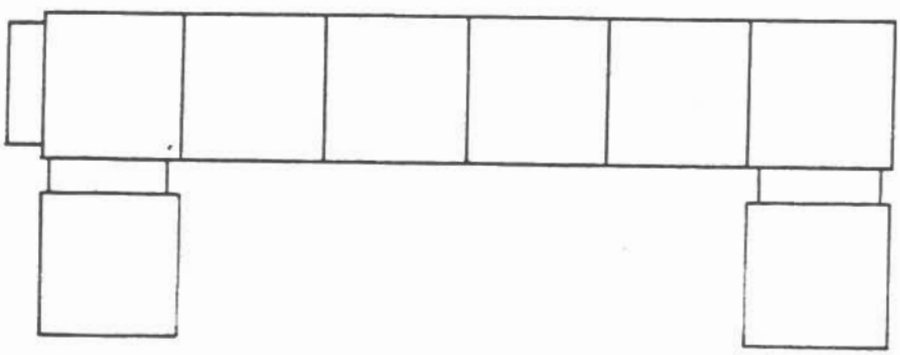
Unifix Cubes





THE ICE CREAM CONE PROBLEM

If an ice cream shop sells 31 different flavors of ice cream, how many different double dip cones could they make?

If the shop had only 1 flavor, there would be only 1 possible double dip cone.

With 2 flavors, there are 3 combinations for double dip cones.

How many double dips are possible with 3 flavors? 4? Make a chart. Look for patterns.

FLAVORS	DOUBLE DIPS
1	1
2	3

Extensions:

1. If you counted vanilla on top and pistachio on the bottom different from the other way around, how would your result change?

2. Try the same problem for triple dip cones instead.