

CP Geometry:
"Skeleton Tower"

Name: _____

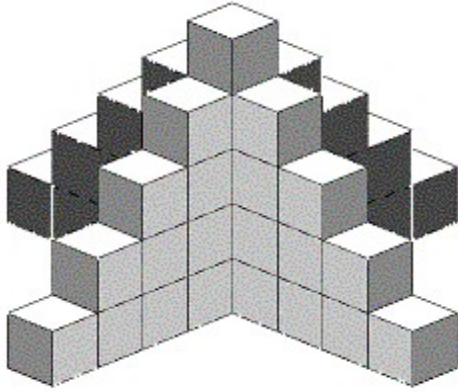


Figure 1

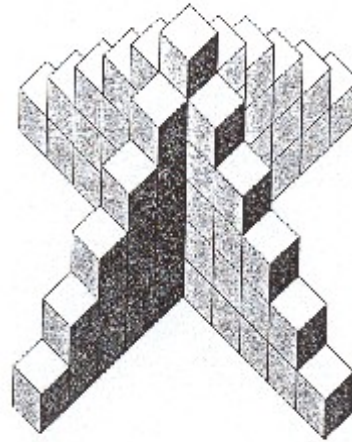


Figure 2

1. How many cubes are needed to build the tower in Figure 1?
Explain your reasoning.

2. How many cubes are needed to build the tower in Figure 2?
Explain your reasoning.

3. How many cubes are needed to build a skeleton tower with a center height of 9 blocks?
Explain your reasoning!

4. How many cubes are needed to build a skeleton tower with a center height of 14 blocks?
Explain your reasoning!

5. How many cubes are needed to build a skeleton tower with a center height of 25 blocks?
Explain your reasoning!

6. How many cubes are needed to build a skeleton tower with a center height of n blocks (where n is a variable)? **Explain your reasoning!

Test your "rule" with the values of n used in Problems 1 - 5. Does it work each time?