1. Make the following boxes on centimeter grid paper. Cut and fold each to make 3 open boxes, taping them so they hold their shapes. How many cubes would fill each box? Explain how you found the number.

   Number of cubes:

   a. 4

   b. 12

   c. 24
2. How many centimeter cubes would fit inside each box? Explain your answer using words and diagrams on the box. (The figures are not drawn to scale.)

a. Number of cubes: 6
   Explanation: I counted 3 for the front face times 2 layers. $3 \times 2 = 6$

b. Number of cubes: 12
   Explanation: I counted 6 for the front face times 2 layers. $6 \times 2 = 12$

c. Number of cubes: 32
   Explanation: I counted 16 for the front face times 2 layers. $16 \times 2 = 32$

3. The box pattern below holds 24 1-centimeter cubes. Draw two different box patterns that would hold the same number of cubes.

   12x2 layers = 24
   8x3 layers = 24