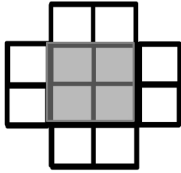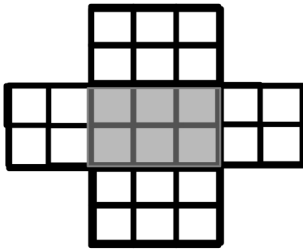Name _____ Date _____

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.
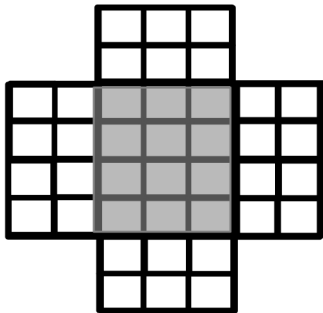
a.

Number of cubes: _____

b.

Number of cubes: _____

c.

Number of cubes: _____

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.)
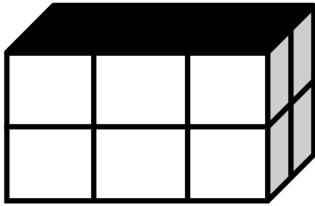
a.

Number of cubes: _____
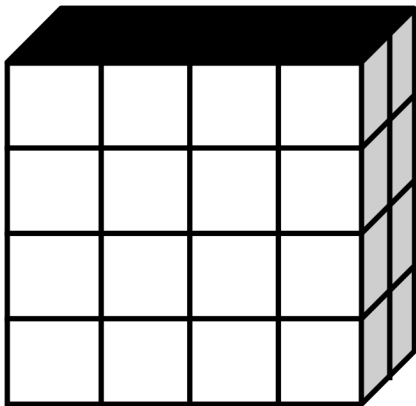
Explanation:

b.

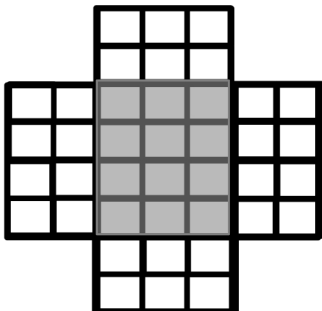Number of cubes: _____

Explanation:

c.

Number of cubes: _____

Explanation:

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

Answer Key

1. Explanations will vary.

    a. 4

    b. 12

    c. 24

2. a. 6

    b. 12

    c. 32

3. Answers will vary.