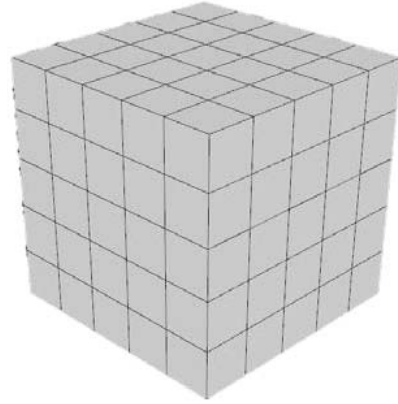


3-D Cubes

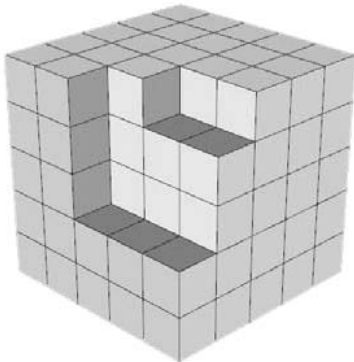
The following exercises will test your visual perception, as well as the ability to use basic geometry

1 The following questions refer to the cube below.

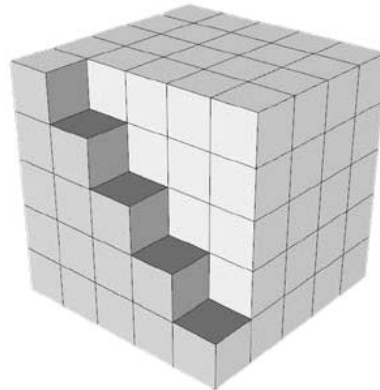
- How many individual cubes were needed to build the larger cube, as shown on the right?
- If you paint the entire cube in blue, how many cubes will have at least one blue face?



2 Which of these models have had more cubes removed?

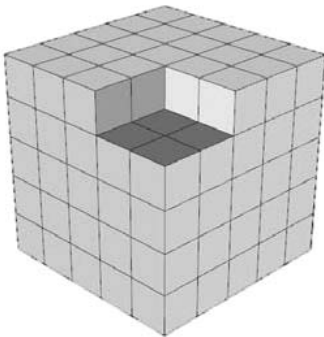


a.

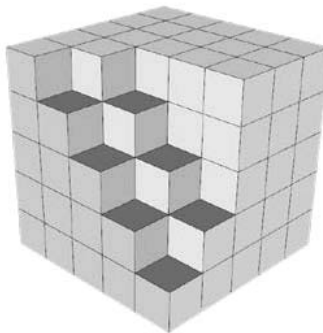


b.

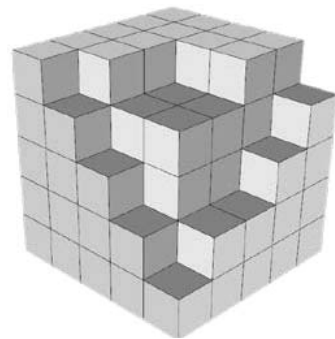
3 How many cubes have been removed from the larger cube?



a. _____



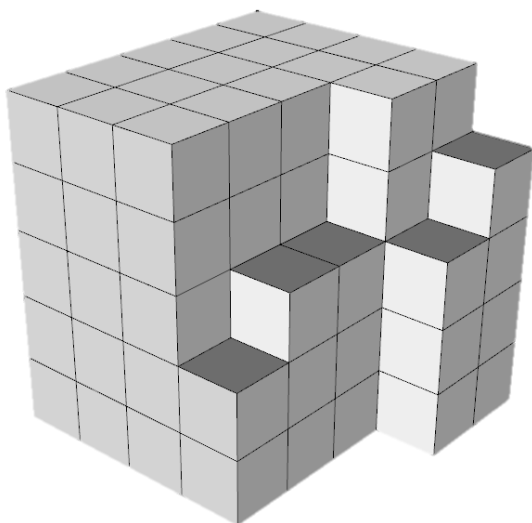
b. _____



c. _____

4

For the model below, how many cubes have been removed from the larger cube?

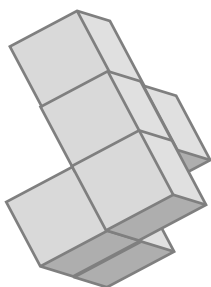
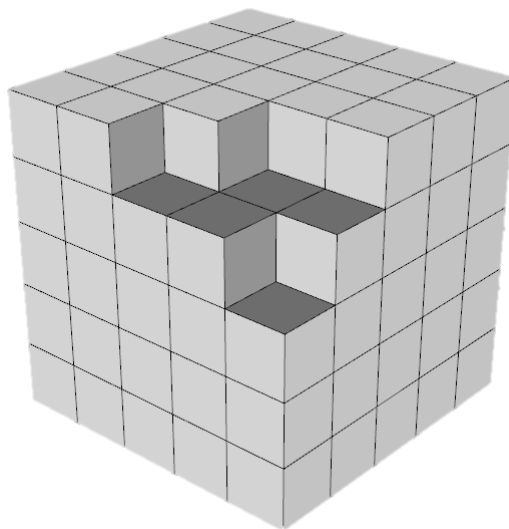


a.. _____

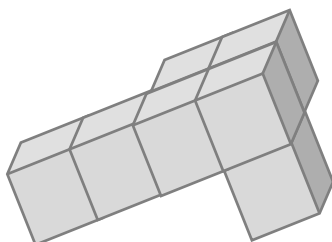
b. What percentage of the larger cube has been removed?

5

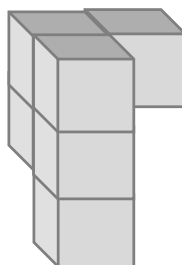
Try to identify which of the models below represents most accurately the missing piece of the large cube shape to the right.



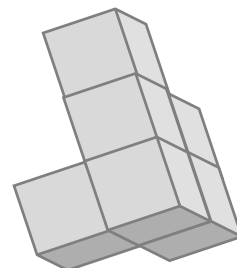
a



b



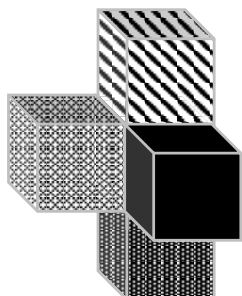
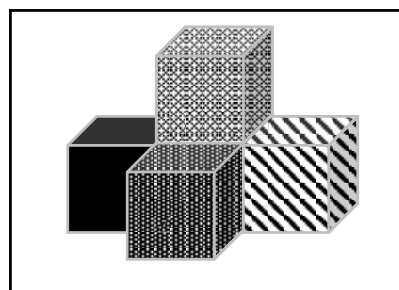
c



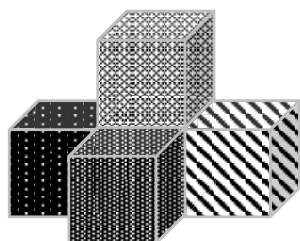
d

6

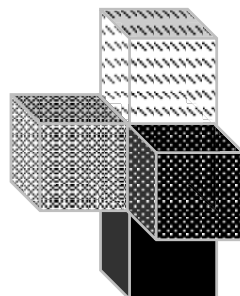
Try to identify which of the models below is exactly the same as the model to the right



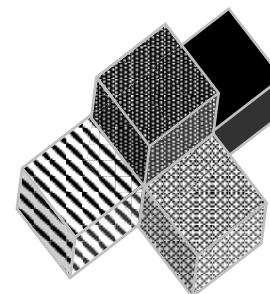
a



b



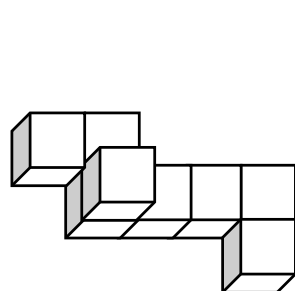
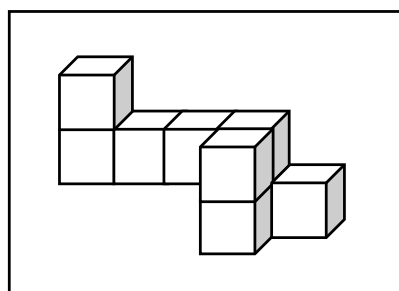
c



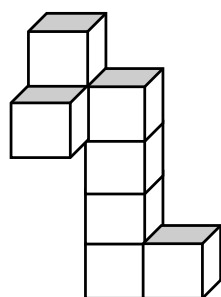
d

7

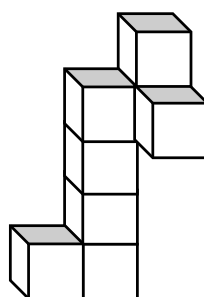
Try to identify which of the models below is exactly the same as the model to the right



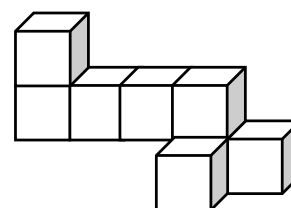
a



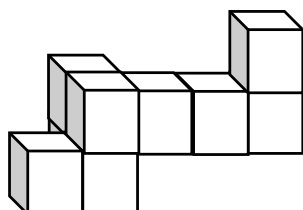
b



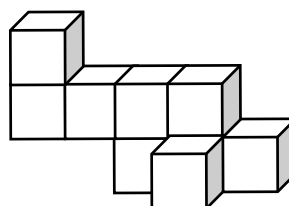
c



d



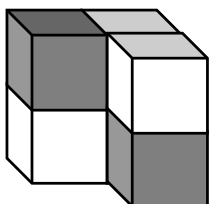
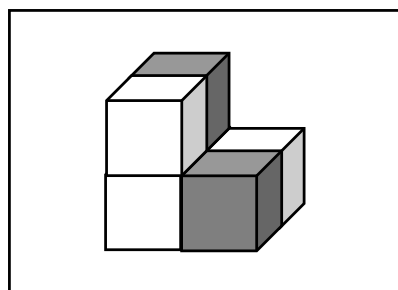
e



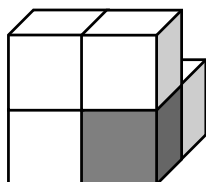
f

8

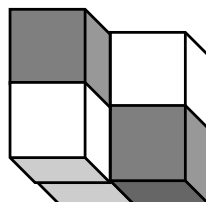
Try to identify which of the models below is **not** **the same** as the model to the right



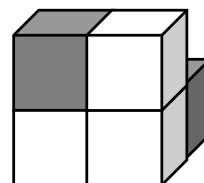
a



b



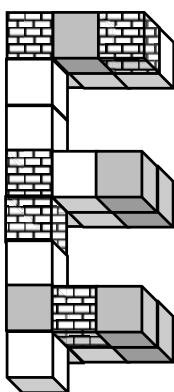
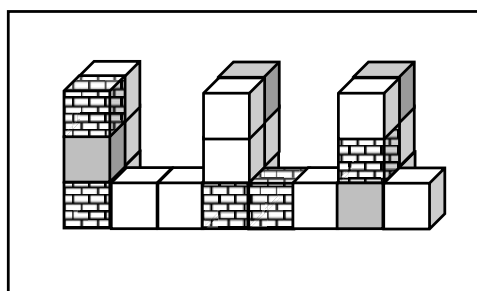
c



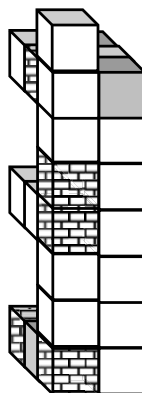
d

9

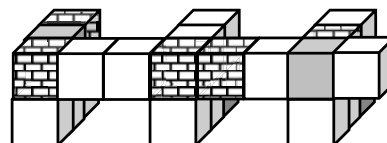
Try to identify which of the models below is exactly the same as the model to the right



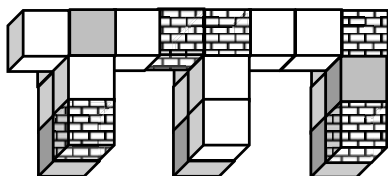
a



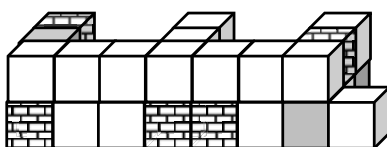
b



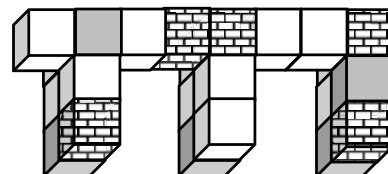
c



d



e



f